Documents

Erom.

Department Offinersy

PostedDate: 10/15/1999 11:14:47 AM SendTo: CopyTo: ReplyTo: BlindCopyTo: Subject: Re: Meeting Notes from September 16, 1999 TSPA Meeting (FEIS, LA and SR The climate thing, now in regard to SR and LA, is again a topic has asked me to advise. I forwarded of concern. As you can see, has asked me to advise. I forwarded this information to last week and we discussed it by telephone. A summary of that discussion, along with an e-mail attachment on the subject sent to you, last December by was sent to by me. I am also forwarding that e-mail transmission. In view of the fact that the USGS-recommended expert panel has not been wants help in determining the best course of action to get a climate story and model for and that "USGS won't piss on." He also wants to know who, if anyone, is in charge of this. Any ideas you may have to preclude escalation of this matter would be appreciated. I understand that about 30 seconds were spent on this topic at last week, concerning a new three-stage climate scenario for the 10k-year period provided by today. 是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种的一种的一种,我们就是一种的一种,我们就是一种的一种,我们就是一种的一种,我们就是一种的一种,我们 第一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种的一种,我们就是一种的一种,我们就是一种的一种,我们就是一种的一种,我们就是一种的一种,我们就是一 需要的数字。但是在在设置的一个行为对象的现在是影响的是在"是"的是或是数据的处理的影响。 10/04/99 05:18 PM Subject: Re: Meeting Notes from September 16, 1999 TSPA Meeting () 09/28/99 09:21 PM cc:

Thanks for the enlightenment, I was definitely under the wrong impression on the work being done for SR and also regarding the nature of the P

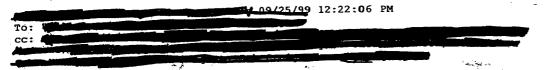
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parent context and became flat-out wrong.

Now the real question is: is the climate going to meet the need for the and the to have long term climate states (and infiltration changes accompanying those states) that are defensible???

I think showing it doesn't matter from a ——dose perspective is not sufficient to establish whether or not this part of the analysis is credible and has a defensible basis. We would all agree that showing that it has no impact on system performance does lower the burden of proof necessary to support the modeling (the confidence-burden), however.

Finally, the agreement to show only 10,000 year calculations in and is not an agreement that DOE was aware of at the upper levels of management, and is being revisited. We will likely need to show calculations, up to peak dose if necessary, in all 3 documents, if they clarify the content of the 10,000 year calculation. This is a dialogue that needs to be had internally, but my announcing to the NRC that we would do 10,000 years only led to a very negative reaction and caused a negative counterreaction in DOE management. NRC said whatever parts of the they need to consult to understand the 10K year calculation will need to be Q, and the reaction of DOE management on the scene was -- OK, let's put all of that in the and rather than make the FEIS a Q document!



Subject: Re: Meeting Notes from September 16, 1999 Meeting

I have been out of town till today. The and I are definitely not working on a superpluvial model and I have no idea what you are talking about below in terms of incorportating a superpluvial into existing models. how or another doing a tweak on won't work. Recall in the model couldn't address the effects of temperature, so I pushed up the estimate of MAP (in conversation with (in try and compensate for the absence of an evaporation (temperature) term. The fact that we wrote the document on a newspaper deadline and did not include the rationale for our MAP caused the survey reviewers to flag the MAP estimate as way too high. So trying to now in the midst of an AMR overdue deadline to figure out how to either run a real estimate of MAP with a model that can deal with MAT or alternatively trying to guesstamate effective moisture and compensate for a no MAT term is not possible (or at least should be given more thought time than is available). Further the recent Ku et al paper in Quaternary Research suggests the lake in was at least 175 meters deep for the better part, about 35k, of the core stage 6 i.e. the superpluvial and penultimate glaciation. Other data indicate alot of the water in the superpluvial lake came from the Amargosa or perhaps the drainages. This large and persistent lake likely owes alot of its existence to a very low MAT (at least 10 C and perhaps more colder than today) but must have also been due to higher MAP. In that a much smaller lake existed in M during the last glaciation and we believe climate for the last glaciation was about 7 C colder than today with an average MAP range of about 280 to 320 mm (USGS open-file 99-338, /pub/open-file-reports/ofr-99-0338/) then the

http://superpluvial should have a yet higher real (ie not adjusted) MAP. How much superpluvial should have a yet higher real (ie not adjusted) MAP. How much higher and how much colder and how much more persistent would require time to think about such things. And if we still can not properly deal with temperature then the compensating MAP value would likely be a very high and model distorting number that no one would be happy with.

wrote:

> I would like to make three comments:

> 1. This is the first I have heard of any plans to produce a new superpluvial

climate description.

2. I don't think it's true that using a superpluvial climate is unarguably conservative. What we have seen is that climate changes are what produce dose peaks (take a look at Figure 5-2 in Vol. 3). Having a steady superpluvial climate may not be as bad as switching between dry and superpluvial climates, for example.

3. However, I agree with comment below that it isn't a big deal, for several reasons: (a) A calculation run after the with everything the same except for no superpluvials produced a peak-dose CCDF only a factor of 2 or 3 lower than the base case, which is a small effect compared to a calculations may have underestimated the effect of the superpluvials.) (b) We expect less sensitivity to seepage/infiltration/climate in because indicates that the the design and in the WPD model (early information)

2 or 3 lower than the base case, which is a small effect compared to a lot of other things. Would want me to add a disclaimer here that the calculations may have underestimated the effect of the superpluvials.) of changes being made in the design and in the WPD model (early information indicates that the and corrosion models will not depend on the presence or absence of seepage). (c) The averaging over climate-change times that occurs when calculating the "expected annual dose" will further damp any spikes associated with climate changes (compare the size of the spikes in the "mean" curve in Figure 4-28 as compared to the spikes in individual realizations in Figure 4-27).

I think that we should either simply extend the glacial-transition climate out to longer times or include climate changes similar to the . The main problem with the latter is that we have focused development on 10,000 years and do not have updated, or even Q, information on the climates and durations beyond that (unless tell me I'm wrong about \$1 above). This is an example of cutting scope to what we considered the minimal necessary work!

From:
Sent: Monday, September 20, 1999 6:09 PM
To:
Cc:
Subject: Re: Meeting Notes from September 16, 1999 Meeting
You should be involved/aware of this discussion.

Forwarded by on 09/20/99 05:16

09/20/99 05:14 PM
To:

Subject: Re: Meeting Notes from September 16, 1999 Meeting (Document link

not converted) >
I tend to agree with that this is not a big issue, we need to pick an approach and agree on it.

I understand that we have superpluvial, a corrected According

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a USGS adjustment coming this year for the and and (mean annual precip and temp).

to an informal preview of

that new superpluvial from the superpluvial

the

goes up from what it was, adjustment in mean annual impression if it is off base.

but so does the , allowing for a downward infiltration.

It seems to me that beyond 10K years we could use either (1) the updated SR-equivalent of the long-term-average climate, or (2) the updated SR-equivalent of the super-pluvial, with net mean annual infiltration changes. The latter would be unarguably conservative. The former more realistic, perhaps, although it assumes that mean annual dose effects from expected dry climates and the expected wettest climates have effect on the very long term dose histories. This would require sensitivity studies to first evaluate and then support. The
approach was a good one, but defending the time-history of climate changes is something that would be nice to avoid since it could lead to challenges and then having to evaluate the more conservative scenario anyway show that assumptions meant little in the way of peak annual average doses. So my vote, until I am swayed by a discussion that argues well for the an other, alternative, is to go with (2) as described above. I am inviting discussion. 09/17/99 12:03 PM cc: Subject: Re: Meeting Notes from September 16, 1999 Meeting (Document link not converted) we can either: 1. continue the 10k climate for the rest of the duration (or pick highest climate state and run out to 1 M yr) 2. use the superpluvial clamate used in the for the rest of the duration In either case, we will look at the "expected" dose, which will "smooth out" individual peaks (peak of mean approach in part 63) that may have occurred > > > in >

the when we looked at the mean of the peaks. The distinction is small. Perhaps we should run both for a single case

performance, nominal inventory, nominal distance), see which is worse and

that for all other cases in the ____ I will assume that approach for now.

Bottom line, I don't think it requires management attention, we will simply the reasonable thing and make the final assessment demonstrably conservative

wrt future climate states.

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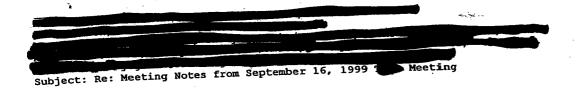
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From:	
PostedDate: 10/18/1999 11:39:18 AM	
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CopyTo:	
ReplyTo:	
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Subject: Re: Meeting Notes from September 16 1999	
<u> </u>	Meeting (and and
Body:	• •
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	,
10/15/99 11:14 AM	
CC:	
Subject: Re: Meeting Notes from September 16, 1999 implications)	Meeting (and
of concern. As you can see, has asked this information to last week and we discussed i of that discussion, along with an e-mail attachment last December by as was sent to by me.	me to advise. I forwarded t by telephone. A summary
In view of the fact that the USGS-recommended experconvened, wants help in determining the best climate story and model for and that "USGS won to know who, if anyone, is in charge of this. Any ide preclude escalation of this matter would be appreciate about 30 seconds were spent on this topic at last three-stage climate scenario for the 10k-year period at today.	course of action to get a 't piss on." He also wants eas you may have to ed. I understand that
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10/04/99 05:18 PM	Professional Profe
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Subject: Re: Meeting Notes from September 16, 1999 電 SR implications)	Meeting (and -
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end part not printed

PostedDate: 08/05/1999 07:51:57 PM CopyTo: ReplyTo: BlindCopyTo: Subject: RE: Still planning to meet the Aug 31 deadline with 1st draft into tech review, so I'll be charging full-time to 4b this month (and probably next)..... I think 4b (is it ???) is running a surplus right now, but are helping me with the 1st draft as we charging to this. speak. I've been boggled down with the Yucca Mt. site-scale AMR stuff which includes all the software QA. has put a high priority on the deliverables for both the site and regional work so I'm burning the candle at both ends. The good news is that I'll be a lot more productive in Sacramento. The bad news is that my productivity has been real bad the past month or two with all this moving and house buying crap. Life has been crazy ever since the gathering at the Longstreet Inn. But it feels real good to be working out of in the middle of Hopefully the proposals for the NTS work (the stuff we sent) will go thru and then we'll be doing some serious leveraging of resources for FY00. I also need to get serious about getting together with for the stuff..... stuff..... got to go on 08/05/99 03:53:14 PM Subject: RE: Piss on QA, how's your recharge report (due Aug 31, 1999) coming. By the may want to fund the transient recharge work!!!! Perfect for all you types! ----Original Message----> From: Sent: Thursday, August 05, 1999 3:51 PM > To: > > Subject: > > > > > FYI > > and I have responded to the recent issues concerning > We believe we've fixed all of the problems identified so that a stop work > > order should be averted. A copy of the fixed notebook was forwarded to We have not yet heard anything back from QA.

>

Prom:
PostedDate: 03/18/1998 01:02:35 AM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: Re: Additional Pieces for Body:
I agree. I had an interesting talk with the property of the providing information for a line on what he is doing. I have an assignment for providing information for and I will need to have it done Thursday morning.

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Author:

Organization:
From:
PostedDate: 03/18/1998 01:02:35 AM

SendTo: CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: Additional Pieces for Body: I agree. I had an interesting talk with I may piss him off begoing to attack him shortly. He is way out of line on what he is doing. I have an assignment for providing information for and I will need to have it done Thursday morning. I may piss him off but I'm

PostedDate: 03/22/1999 06:08:37 PM SendTo: CopyTo: ReplyTo: BlindCopyTo: Subject: Re: Just Checking In 1. Software QA for the latest version of the model is coming along crappy. This is because there are some 11th hour changes taking place. The fall-back position is that the new models will be used only as supporting info for the developed data packages supporting the FY99 milestone report (we will use the 96 version of the infil code, which has been QA'd, to generate the final FY99. result... this is mostly what wants anyway). result.... this is mostly what 2. Here's the minimum input data being used (both 96 and 99 version of model), which has for the most part already been QA'd: 1. Digital elevation data (data already QA'd)* 2. Geologic classification GIS map (already QA'd)* 3. Vegetation classification GIS map (already QA'd)* 4. Stream channel GIS map (already QA'd ?????)* 5. Daily precipitation data (already QA'd for 96 version of need to double check this. There's some important data from NTS precipitation stations in here that have always been a QA gray zone) 6. Soil property data (already QA'd) 7. Bedrock permeability (mostly already QA'd or available... I think) * I'm trying to complete the northward expansion to match the new area of the SZ model. I'm not sure what the QA status is for the new GIS coverages for Here's what I'm hoping to add to this, if all goes well: 1. USGS stream flow data: this is all available data no QA needed. (This 2. NCDC (Earth-Info) daily climate data (precip, air temp, snow cover): also. 3. Better soils data. If we use the data, I don't think it needs to be available data, no QA needed training (doesn't mean I know what I'm supposed to do, QA'd 3. I've had my l but I have hard copies of everything). 4. Scientific notebook OK (not perfect, but I'm getting help from Sounia in 5. For now, I'm hiding out from all tiger teams, like some outlaw in a We're heading underground with the real work. Tell Spaghetti Western. he was supposed to destroy that memo. 03/22/99 02:27 PM To: cc: Subject: Just Checking In Just checking in to see how everything is going. How's the software QA coming? Keeping up w/ the Scientific Notebook? Do you understand what's required? Do you How's the model? training? Have you had the 🚄 And the biggest one in my mind: what data are you using in the model?? Is any have any questions? of it either unpublished, non-YMP or unreviewed YMP? Data package assembly has become even more onerous than before (hard to believe) and it's taking longer than ever to get data packages processed. If you have anything that is going to need review you'd better call me ASAP so we can get started on it. Any new news on their plans about the I saw your emails to for you??

Write back when you get a chance.

From:
PostedDate: 03/15/1999 10:14:50 PM
SendTo
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: Re: The Hell

Body:

Subject:

This memo actually hits the nail on the head. You are exactly right: One, yes, we will do the work, Two, yes, screw the tiger team (I don't know how yet but I'll figure it out), Three, yes, destroy this memo!

03/15/99 12:18 PM
To:
cc:
Subject: Re: The Hell

and I have been trying to figure out what's really coming at us with the tiger team effort. So far we've learned that they don't have a solid plan of action yet. I've formulated a "potential impact list" that is prioritized according to what work gets impacted 1st; 1. FY99 support to (includes all the workshop stuff), 2. regional recharge report, 3. site-scale infiltration modeling report. Some of the work the tt effort calls for was scheduled under QA anyway, but we started hearing rumors of things like re-doing all the QA work for the neutron logging data, which will stop us dead in the water.

Now I'm going to give you the inside scoop: I'm going to continue the regional modeling, even if it means ignoring direct orders from management. I'm also going to be working on reports, even if it means ignoring direct orders from management. and have a pretty clear vision of the type of work that needs to be done to stay alive for the long-haul, and it very definitely involves getting product out there for the users and the public to see. The regional modeling work fits that bill. Screwing around with tiger teams does not. In the end, its going to be the reports that move everything else forward.

So, the work may be slowed, but I will not let it stop. At this point, I am still working to the plan that we've all spent a significant amount of time on to make things happen for FY99. That's the insider scoop. The position we will take for the planners may be much different. So delete this memo after you've read it.

X

Please respond to
To:
cc:

I understand you're going to be sucked into the for site infiltration. Any idea how that will impact timing for your regional recharge model product for the year's end. Or are your just working every weekend and waking moment like all the rest of us?

From:
PostedDate: 03/15/1999 03:18:46 PM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: Re:
Body:

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*

Please respond to
To:
cc:
Subject: Hell

I understand you're going to be sucked into the Term for U2 site infiltration. Any idea how that will impact timing for your regional recharge model product for the year's end. Or are your just working every weekend and waking moment like all the rest of us?

PostedDate: 04/22/1999 09:52:39 PM

SendTo: CopyTo:

ReplyTo:

BlindCopyTo:

Subject: status of new climate net-infiltration modeling

I thought I'd give you a "heads up" on the progress of work I've been doing with the results you've provided. Model simulations have been in progress but about 3 weeks ago I found a small error in the model input that was generated data. The error was minor but would have created a QA using the nightmare so this was fixed and the simulations are being re-done (I'll send you a summary of the results when I get to this point).

I am about to submit a "developed datapackage" milestone consisting of the climate input files (7 files for the 7 sites you identified) that are being used by the net-infiltration model. The input files are basically re-formatted export files with a minor amount of parameter estimation occurring to fill small gaps in the record (even for the high ranking sites, there are gaps

all over the place).

Here's the weird news; to get this milestone through QA, I must state that I have arbitrarily selected the analog sites. At first, I was going to include your email as supporting information in the data package, and discuss the work we did using the worksheets consisting of candidate sites, but since there is no for your results the message I am getting from QA is that I can't use or refer to those results. In other words, I was trying to give you credit for your part in all this, as well as provide all info possible for the traceability of the analog climates, but this seems to create problems rather then solving them.

So for the record, the seven analog sites have been arbitrarily (randomly) selected. Hopefully these sites will by coincidence match the sites you have identified.

P.S. please destroy this memo

Author: PostedDate: 04/03/1998 10:14:24 PM SendTo: CopyTo: ReplyTo: Subject: Re: Infiltration and UZ flow

So, you now have more hard evidence for the model? I'm surprised Body: approximation suffice to model the phenomena you discuss you didn't say "I told you so!".

Could our I suggest you send your e-mail to and others in 1.2.3.
Also, to below?

I think the main thing here is that if you think the flow will contact Also, to significantly fewer waste packages than what we are saying in our base case, then we are being way over conservative, especially considering that the fraction of packages seeped upon in the is the most important performance What do you propose? parameter.

It seems too late now to change the base case.

04/03/98 04:19:40 PM

To:

cc:

Subject: Infiltration and UZ flow

I have some maybe bad and maybe good news that you called me 2 weeks ago should be aware of. and said that he had tested the first sample of core from at and it had a concentration of 39 mg/l of chloride. This means that the flux is at most 2 or 3 mm/yr in this high infiltration zone is at the crest of YM). There are some implications that I did not realize until I talked them over with yesterday: basically, either our infiltration model is wrong or our flow model Infiltration model wrong? If we look at 2 analog sites, we see much different behavior than predicted by our infiltration model. At estimate for infiltration is about 24 mm/yr in the center, under a wash, decreasing to about 10 mm/yr a mile away, decreasing to virtually nothing around G-tunnel (the southern edge). Also, the emethod predicts a recharge of ~20 mm/yr. Our infiltration model predicts about 40 mm/yr--our climate. , the and , there are drips in 2 parts of the tunnel: At 🕶 under a perched water body and under a wash. The drips under the wash are significant, but only immediately after the wash is flowing. Our infiltration model has virtually no infiltration in washes; what infiltration there is in washes is basically put there as a fudge factor. (I don't want to be too critical here -- I could probably tear apart any of our models. Did somebody brobably tear apart any of our models. Did somebody did do us a great favor n helping us out for say seepage? And flow model wrong? Looking at the same analog sites, say seepage? And we see that flow is not ubiquitous. It is in isolated paths, typically associated with locally saturated conditions. If flow is in isolated paths, we would get high chloride in the almost everywhere we look (amd

we would get high C1-36 in a few places in the ESF too, but that is another story). At average 100+ m apart (from the memory of not from data). Also at , the perched water is in vertical slices separated by sections of dry fractures and faults. There is no evidence that the perched water flows along the top of the vitric/interface. Rather, it is more likely (from geochem data) that the perched water drains' from below (I am guessing because it builds up a head). Again, this behavior suggests isolated flow paths. I will not go into but the message there is similar. Both wrong? The analogs, and now the chloride data, suggest a model where most infiltration/recharge is in isolated zones, perhaps at points along washes, and that most flow occurs in isolated, locally saturated ribbons immediately below the infiltration points. Does it matter? Well, the good news is, as out to me, that most of this is probably better for pointed performance. (The only thing that could hurt performance is that flow in CHnv might not be in the matrix either.) The bad news is that it might hurt our credibility. The point we probably need to make in is that our modeling is conservative, because: (1) the lower the infiltration, the fewer containers are contacted, and the less waste is released; (2) the more isolated the flow paths, the fewer containers are contacted, etc.; and (3) diverting the water around the zeblitized rock minimizes retardation. The unfortunate thing here is that the way we have the natural system modeled, we are probably not giving it enough credit.

ALD.20040615.1154, EML0494

Author: Organization: From: PostedDate: 04/03/1998 10:14:24 PM SendTo: CopyTo:

ReplyTo: BlindCopyTo:

Subject: Re: Infiltration and UZ flow

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Subject: Infiltration and UZ flow

I have some maybe bad and maybe good news that you should be aware of. called me 2 weeks ago and said that he had tested the first sample of core from PTn at and it had a concentration of 39 mg/l of chloride. This means that the flux is at most 2 or 3 mm/yr in this high infiltration zone is at the crest of YM). There are some implications that I did not realize until I talked them over with yesterday: basically, either our infiltration model is wrong or our UZ flow model is wrong or both.

Infiltration model wrong? If we look at 2 analog sites, we see much different behavior than predicted , the best by our infiltration model. At estimate for infiltration is about 24 mm/yr in the center, under a wash, decreasing to about 10 mm/yr a mile away, decreasing to virtually nothing around G-tunnel (the southern edge). Also, the method predicts a recharge of ~20 mm/yr. Our infiltration model predicts about 40 mm/yr--our climate. , the and , there are drips in 2 parts of the tunnel: under a perched water body and under a wash. The drips under the wash are significant, but only immediately after the wash is flowing. Our infiltration model has virtually no infiltration in washes; what infiltration there is in washes is basically put there as a fudge factor. (I don't want to be too critical here--I could probably tear apart any of our models. Did somebody did do us a great favor in helping us out for () say seepage? And UZ-flow model wrong? Looking at the same analog sites, we see that flow is not ubiquitous. It is in isolated

paths, typically associated with locally saturated conditions. If flow is in isolated paths, we would get high chloride in the PTn almost everywhere we look (and we would get high C1-36 in a few places in the ESF too, but that is another story). At 🖿 average 100+ m apart (from the memory of the drips not from data). Also at the perched water is in vertical slices separated by sections of dry fractures and faults. There is no evidence that the perched water flows along the top of the vitric/interface. Rather, it is more likely (from geochem data) that the perched water drains from below (I am guessing because it builds up a head). Again, this behavior suggests isolated flow paths. I will not go into but the message there is similar. Both wrong? The analogs, and now the chloride data, suggest a model where most infiltration/recharge is in isolated zones, perhaps at points along washes, and that most flow occurs in isolated, locally saturated ribbons immediately below the infiltration points. Does it matter? Well, the good news is, as out to me, that most of this is probably better for performance. (The only thing that could hurt performance. is that flow in CHnv might not be in the matrix either.) The bad news is that it might hurt our credibility. The point we probably need to make in
is that our modeling is conservative, because: (1) the lower the infiltration, the fewer containers are contacted, and the less waste is released; (2) the more isolated the flow paths, the fewer containers are contacted, etc.; and (3) diverting the water around the zeolitized rock minimizes retardation. The unfortunate thing here is that the way we have the natural system modeled, we are probably not giving it enough credit.

The same to the sa	
From: PostedDate: 03/06/2000 01:54:51 PM	_
SendTo:	
CopyTo:	
ReplyTo:	
BlindCopyTo:	. •
Subject: Re: USGS AMRs	
Body:	4
What a circus (see emails below)	
What a circus (see emails below) I re-wrote blockr7 to use the following the grid fi	ies as input:
: the composite DEM created by	and along burners
: the composite DEA created by : latitude (decimal degrees) for each grid cell cal	curated by
: longitude calculated by A	
slope calculated by A	
aspect calculated by	
: the soil type map, rasterized by : the depth class map, rasterized by	
the depth class map, lasterized by	only),
the rock type map	
rasterized by the topographic ID (I must assume that this was	produced in
December 15 18 Only a Diace No.	uer and not
through the pre-processing and is in all the *. files used	l as input for
through the processing	•
So once the DEMs, the geology, the soil type, and the soil de	epth class maps
so once the DEMs, the geology, the solit type, and the solit make it into the TDMS, will provide a link to the soliton than the soliton the soliton than the soliton that the soliton than the soliton than the soliton than the solit	which is the
maybe the topo ID stuff) so this should get us to full trace	ability.
I checked the blocking ridge calculations using and	
looks reasonable. I have not yet incorporated latest	fixes to
looks reasonable. I have not yet incorporated for the improved version. I am just trying to re-produce the	blocking ridge
-1 and way send me a CODV OF the improved version so the	at we can start
with the better numbers for the regional modeling?	•
	v someone may want
I can fudge the attachment for for now but eventually	t there will be
to run to see what numbers come out and at that point problems, although it is my belief for now that an impact are problems, although it is my belief for now that an impact are problems.	alvsis would reveal
problems, although it is my belief for now that an impute that the differences are not critical to the end result.	
that the differences are not critical to the sur	
Forwarded by	3/06/2000 10:19
· · · · · · · · · · · · · · · · · · ·	•
AM	
	•
03/06/2000 09:33 AM	
To: 2	_
CC:	
Subject: Re: USGS AMRs	
Yes - will fedex it and fax it to	
What is your fax number so we can copy you on it.	
03/06/2000 08:12 AM	

Subject: Re: USGS AMRs I think we're on board - you or 🚛 will iniate a 3.14 request? 03/06/2000 08:11 AM cc: Subject: Re: USGS AMRs Please note that these are two separate issues: is an output data transmittal needed for a number of AMRs. This is needed in the TDMS regardless of the status of the AMR burning CDs and sending you copies of what you sent us for this transmittal and data recevied. Please note that also has copies of these data. We will also send you these by email, though I am concerned that the files are large and may be difficult to transmit (We will send the files later this morning in separate of the AMR - If the AMR will not be complete by the time the PMR is issued, then the AMR itself (a DRAFT version) must be submitted as an transmittal. Otherwise the PMR can not be finalized. This is a recent approach to deal with the possibility of an AMR not being complete before the due date of the PMR. I hope this clarifies these two separate issues. 03/06/2000 05:34 AM To: Subject: Re: USGS AMRS I am not sure what you mean by "This is a different that we have been talking about? If not what is the Input Transmittal number? I am not aware of one for the DRAFT version of AMR . Are you saying that a copy of the DRAFT version must be placed in the TDMS? Or are you just asking for a copy be transferred to LBNL process does not include a step that maintains a copy by the originating office (in the case of USGS management is developing a process to do this at this time. However, to be placed in the TDMS. because our Data Management Section does not have a copy of the data explaining the pertainent information about the data. We are nor do we have the data nor a data summary sheet having difficulty recreating the data set that you were given and placing it in the TDMS. I assumed after our phone conversation last week that you would help provide that needed information, but have not received anything from you yet. If you cannot provide the information, please let me know and I will try other means. 03/04/2000 06:21 PM To:

Subject: Re: USGS AMRs
This is a different

This is a different Transmittal. It will be necessary to transmit a DRAFT verison on the AMR The previous transmittal was for the output data. This is required because the document and its conclusions are referenced and utilized in the PMR.

03/03/2000 12:34 PM

Subject: Re: USGS AMRs

The information was transferred via 🔌

03/03/2000 12:25 PM cc:

Subject: Re: USGS AMRS

In order for the PMR to be submitted with the Infiltration AMR unfinished, any information used in the PMR from this AMR will have to be covered through use preliminary input transfer. If the AMR is not far enough along to be used in draft form, then an alternative will have to be developed. I assume will work with and to make sure we have the paperwork correctly done to make this happen.

03/03/2000 08:27 AM

Subject: USGS AMRs Infiltration AMR: Will not be completed by 3/13 - it needs to be put into the category of "the rare ones that get completed after the PMR is submitted. We fully intend to complete during the period of the DOE PMR review. It has not been submitted for checking at this point. The Infiltration AMR should be taken off the interactive review schedule next week.

Climate AMR: Issues remaining, get the damn
other minor issues - we've already received comments, have proposed responses, and as soon as stuff is fixed will return for concurrence of responses. I'm not sure the interactive review next week will help especially as will not be there. I do believe we can get this one approved prior to 13th!

PostedDate: 07/08/1998 03:48:13 PM SendTo: CN= OU=YM/O=RWDOE@CRWMS SendTo: CN=

CopyTo: ReplyTo: BlindCopyTo:

Subject: don't be jeolous

Body:

You may be jeolous about a one-day event I had, but I'm sure as hell jeolous about the office you get to work in 5 days out of 7. I don't know how much longer I can take this cube shit. There are days when I seriously ponder the thought of quitting.

From: PostedDate: 05/11/1998 03:44:35 PM SendTo: CopyTo; ReplyTo: BlindCopyTo: Flow (+climate+infiltration) section for Subject: 🦱 Body: **document** FYI. Still don't know quite how to handle the air temp glitch. I'm continuing to keep mum about this, but, from a scientific integrity standpoint, it is tempting to let the end users know exactly what was provided to them in terms of effectivley cooler future climate simulations. Problem is, I don't know how to do this without looking bad. If we can let it all pass without trying to attach DTN numbers to these results (the prefered choice), then I can forget about it and just concentrate on getting results out for the new model. If they (DOE) force us to put DTNs on these things, I would rather the truth come Don't need to respond to this, we can talk about it later. -- Forwarded by on 05/11/98 12:24 PM on 05/04/98 03:00:49 PM Flow (+climate+infiltration) section for document text text s-ascii Lines: 15 To all -Attached is the first draft of the Flow section (which includes climate and infiltration as well as flow) for the document. It is in two Word 97 files, one for the text and one for the figures. We are already behind schedule in submitting this section to the Electronic Storyboard, so I would appreciate any comments or suggestions you may have by the end of this week (May 8). It is about 15 pages of text, and several figures. You are welcome to comment only on the sections that you are interested in, If you can't read the files, let me know and we can get it to you in some other format. default-app default uuencode

Attachment: Attachment:

Author: Organization:

From: PostedDate: 06/18/1998 04:48:09 PM

SendTo: 🛲 .CopyTo: ReplyTo: BlindCopyTo:

Body: Actually I like the study but I'm now tracking down for help tracking it down but I would suggest we start an all out effort to track down ALL stream flow records for our study area. That may be all the data we have to calibrate with. I need the NTS precipitation data fairly soon (I know, I also have way to much stuff to do). Send me the address, or person to call, to get the data on CD, I'll order another copy and start working with that. Actually I may not need the going back to 1900 I am getting a copy tomorrow of all the data for the (hand entered to 1948 from microfiche, the rest came from) and I sort of promised to share the data. They are USGS people in the and we we be working with them next year. Did you know there is a USGS map of every since 1948? At least that's the rumor. precipitation event for the They (I actually don't know who they are yet but may be in precipitation data from every station available and then used some sort of elevation correlation (they don't have the stations). I'm looking into that now and should get all the maps by mid July (we may get scooped on a bunch of stuff). Fun being busy isn't it?

06/18/98 01:47 PM

To: cc:

Subject: Re:

I'm finishing up the infil report (concentrating only on those items originally requested me to look at ... I talked this over with yesterday). I've been meaning to send you a program that will convert the 6 regional strips you have back to the original *. file format, but I got sidetracked a little with the planning stuff. Let me finish infil and I will got the code (Time close to finishing it) get you the code (I'm close to finishing it). I wanted to have these simulations running this week. But I also wanted you and to look at what I'm using for effective permeabilities. I'm trying to clean up a worksheet I have so that you and Lorrie can understand it.

As far as FY99 modeling goes, there are several areas that we can always use help in; programming, GIS, and anyone capable of getting a simulation going, compiling the results, creating maps and graphs of the output, and helping me compile and update the climate database, streamflow records (along with any other calibration data), and the future climate stuff. You and I may be the only ones developing the model code, but even some part-time help from someone with programming skills would be a tremendous boost to keep things going (the small re-formatting program above is a great example), and to have software QA keep in step with model improvements. I don't know who this person would be, and there we have a dilema. At least we are making an effort to improve out GIS expertise.

h stuff and the regional stuff goes; 1. We never seem to be certain about the funding level from until the planning is over and done with I wanted to have a backup to keep the regional effort going. 2. We are doing the same amount of work on the regional scale wether we n or not, so why not try to get the money? All get the money for . Its like we'll get we have to do is a few extra simulations in paid twice for the same work (and I don't feel bad about this considering how little we're getting paid for the work this year in my mind it will all even out in the end). 3. I'm still not convinced that there will not be another round of planning where we have to try to cut 50% of the funding we are P. Geeze... I spent too much time asking for now. Then we can just get rid of the on this email... gotta go!

ALB.20050216.7533, EML1017

From:

PostedDate: 06/18/1998 04:47:34 PM

SendTo: Alexandre

CopyTo: ReplyTo:

BlindCopyTo:

Subject: Re:

Body:

I'm finishing up the infil report (concentrating only on those items lacksquareoriginally requested me to look at ... I talked this over with yesterday). I've been meaning to send you a program that will convert the 6 regional strips you have back to the original file format, but I got sidetracked a little with the planning stuff. Let me finish infil and I will get you the code (I'm close to finishing it). I wanted to have these simulations running this week. But I also wanted you and to look at what I'm using for effective permeabilities. I'm trying to clean up a worksheet I have so that you and and can understand it. As far as FY99 modeling goes, there are several areas that we can always use help in; programming, GIS, and anyone capable of getting a simulation going, compiling the results, creating maps and graphs of the output, and helping me compile and update the climate database, streamflow records (along with any other calibration data), and the future climate stuff. You and I may be the only ones developing the model code, but even some part-time help from someone with programming skills would be a tremendous boost to keep things going (the small re-formatting program above is a great example), and to have software QA keep in step with model improvements. I don't know who this person would be, and there we have a dilema. At least we are making an effort to improve out

As far as the stuff and the regional stuff goes; 1. We never seem to be certain about the funding level from over and done with I wanted to have a backup to keep the regional effort going. 2. We are doing the same amount of work on the regional scale wether we get the money for or not, so why not try to get the money? All we have to do is a few extra simulations in . Its like we'll get paid twice for the same work (and I don't feel bad about this considering how little we're getting paid for the work this year in my mind it will all even out in the end). 3. I'm still not convinced that there will not be another round of planning where we have to try to cut 50% of the funding we are asking for now. Then we can just get rid of the Geeze... I spent too much time on this email... gotta go!

ALB.20050220.2163, EML1018

OU=YM/O=RWDOE From: CN= PostedDate: 03/17/1999 07:10:05 PM

D/OU=YM/O=RWDOE@CRWMS SendTo: CN=

CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: Jury summons

Body:

They want me to go down on April 19nth. I've been putting together the new future climate input sets; I need to be running simulations while I'm writing reports. I'm also putting together a real simple snow cover model for now; the degree-day approach. I've been working on programs that pull in the earthinfo export files (precip, max temp, min temp), combine the files into one, check for gaps, estimate missing values, and generate output that is usable for infil modeling or the next step in climate modeling; spatial interpolation of daily input. I think when I'm done this will be applicable to the think we can generate one file that will contain a precip map for each day for a 100-year record:

This work also needs to get done for a level 4 milestone coming up end of April D. Basically I have two weeks left to get this done so start the technical reviews of the developed data 1st part of April. Also, need to get it out of the way so we can have some lee-way for putting the stuff together, and so I can get back to writing.

Either the regional modeling or the site scale modeling will get into trouble if I'm the only one working in it. The 176k for assumed about .5 FTE beyond my time for things like model calibration, QA, model development, and up-dating input files. At this point the regional modeling is suffering because You and I are the only ones that seem to I've focused everything on programming so that puts us in a bind. On the other hand, it how to run the wouldn't take that much time to show someone like model for calibration (only worksheet skills are needed here, although skills are also very helpful). I'm hoping to have a final FY99 (1st or 2nd week site-scale model together by the time I come out to of April) so we can go into full-time calibration run mode.

What resources beyond our own group could I be tapping to solve the problem? For example, I've thought about: 1. student help (administrative hassle factor may be high), 2. (administrative hassle factor high), 3. (administrative hassle factor may be high), 2. factor high), 3. support is ready to help us out with the uncertainty analysis... I think we can make some headway without handing over the source code, which has been my biggest worry), 4. Student help from either or . 5. YMP USGS (

Gotta go... I've spent way too much time on this email

03/16/99 07:29 PM To: cc:

Subject: Re: Jury summons

I think you're stuck. You get USGS pay and they, supposedly, get the money. I think you should just go in an do the jury duty. Chances are there will be 50 people of whom 12 will be picked. If you are picked it will likely be for only a day. Sorry.

03/16/99 11:47 AM

Subject: Jury summons

I've just received my 2nd notice for a summons to the judicial district court jury duty in (I ignored the 1st one back in October 98). This one warns me that I could go to jail if I continue to ignore this. I called the court today and they want me to find out how the USGS handles pay for this leave situation.

Is there a way to have the USGS over-ride this summons? I cannot afford to stop working on what I'm working on now to go sit in a Jury (unless the trial doesn't last longer than half a day), and it has nothing to do with money.

At any rate, I don't think I can just say the dog ate it.

From: CN=5 /OU=YM/O=RWDOE PostedDate: 10/29/1998 07:41:37 PM

SendTo: CN= OU=YM/O=RWDOE@CRWMS

CopyTo: ReplyTo: BlindCopyTo:

To:

Subject: Re: Design Features 23/24 - Period of Effectiveness

Body: enjoyed the ranting and raving. We're trying to work with the engineers because thats where the funding's going. Leveling the top of the mountain seemed humorous but it gave me the chance to make some more cool figures. This little task is history now. Wait till they figure out that nothing I've provided them is QA, If they really want the stuff they'll have to pay to do It right.

X

10/29/98 03:31:59 PM

Thanks for sending the information to me. I find these things interesting.

10/29/98 03:21 PM

Sent by:

To:

cc:
Subject: Re: Design Features — Period of Effectiveness

FYI: The engineering perspective on this. I meant to send this earlier (If I already did, ignore this... I may have gone senile)

To:

The engineering perspective on this. I meant to send this earlier (If I already did, ignore this... I may have gone senile)

The engineering perspective on this. I meant to send this earlier (If I already did, ignore this... I may have gone senile)

gov on 10/28/98 04:26:21 PM

To: Cc:

Subject: Re: Design Features — Period of Effectiveness
Thought I would put in my 'two bits worth" on this subject. Afterall, the life expectency has a lot to do with the engineering design. I would welcome comments.

The design for calls for armoring the soil blanket with rip-rap. In nature, desert nature that is, the rip-rap is called desert pavement. We can see that the desert pavement effectively protects the soil from wind, rain, snow, sleet, etc, so that the mass transport erosion is confined mainly to the washes. If the rip-rap is applied properly to imitate nature, then why can't we assume a similar protection for our man-made desert pavement? Also, the average erosion rates there are extremely small - 0.19 cm/ka average for Yucca Mountain hillslopes. Could expect similar If we look at the ages of the erosion rates with the rip-rap protection? hillslopes at YM, we see it ranges from 170 to 760 ka. I would not suggest that our engineering effort could last this long, but it is certain to last at least 1 ka., and possibly 10 ka's or more (100's of ka's?). I proposed at one time a very conservative approach with 1000 years. Let's face it, the desert topography is very stable and long living so why can't we expect

our modifications to last just as long? Comments?
For design , I would think that this would last somewhat shorter than Eventually, chemical, and mechanical erosion of the bedrock will creat soil over the exposed bedrock. I am not sure how fast it would form, but it would be very slow. I would think that the 1000 year life would be

To: cc: Subject: Design Features 23/24 - Period of Effectiveness

In the analysis of , we will need to make an assumption regarding how long these surface modifications remain effective.

Can you fellows suggest a reasonable range of time periods that can be assigned to these two features? I propose doing RIP calculations where the infiltration maps are changed depending on the time period of DF effectiveness. Alternatively, if you can provide a technical basis for assuming these DFs would be effective for 10,000 yrs, this would work we will need this input from you this week in order to stay on schedule.

Thanks,

PostedDate: 12/18/1998 05:25:24 PM

SendTo: CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: AP

Body:
Wow! Thanks for this very thoughtful and philosophically charged wealth of
advice. I here exactly what you say. YMP is looking for the fall guys, and we
are high on the list. I got a strong feeling at the meeting that high level
folks are starting to pay very close attention to who they will come after when
things hit the fan. Who got how much funding at what time will all be long
forgotten when the lawyers start challenging credibility of results. It was
made clear that this will be like the OJ trial, where results are completely
thrown out because of minor procedural flaws or personal attacks on
credibility. As to told the lawyer who was there, YMP doesn't stand
a snowball's chance in hell of making this work if that is the approach.
As far as the 98 and 99 modeling, I'm starting the write-ups now. Much of this
is already being covered in the NLPs and APs so I can kill 2 birds with the
same stone. I much as I think may help us out with some things, I am
going to be very careful that doesn't end up taking credit for our work.

12/17/98 08:47 PM

cc:

Subject: Re: AP 3.100

I agree with your analysis. We only win if we get the final product out. I have to think through this carefully but where I'm headed is this. ASAP, just I will make sure we get the 96 report done (you need to call ASAP, just in case she needs input from you on Friday). You, on the other hand, need to start the FY99 report, assuming the FY96 gets approved. You need to lay out the changes you've made to the model, how you've tested or calibrated those changes (stream gage, neutron (I've already started working on a new neutron hole analysis which I had hoped to finish this vacation but won't be done until later I'm sure)), what the results are, and what difference it makes. Do this for the site scale as your basis for the change to the model and as the basis of the report. Then start another report, which uses the first report, to lay out the regional model. Both report will address past and future climates. That's where I'm heading but I'm not there yet. We can discuss this tomorrow.

The bottom line is forget about the money, we need a product or we're screwed and will take the blame. EVERYBODY will say they told us to go ahead without a plan or budget in place (even though said no hires). This is now CYA and we had better be good at it. I seem to have let this one slip a little to much in an attempt to cover all our work (and get us the hell out of the long term problem of Yucca Mountain) but now it's clear that we have little to no choice. In all honestly I've never felt well managed or helped by the USGS YMP folks, in fact, as you know, I've often felt abandoned. This time it's no different, or worse, and we have to work together to get out of this one. I'm still overwhelmed trying to protect the rest of the program from the ravages of funding, which we seem to be blamed for because we what's happening in got funding) and the current is fiascoes in the . That is to say we're not working on our own as we have for the past 12 years, now were being threatened (and carefully watched) by the people who use to simply ignore us. These are very dangerous time, both funding wise and professionally. Mark my words on this one, it will not be long before our technical credibility with be challenged in an attempt to discredit us and redirect funding! Oh, by the way, you did a great job in response to request. Bravo!!

(keep my last paragraph prvate or among friends, if you know who they are)

12/17/98 06:57 PM	
Sent by:	
To: 22 marsh more and an arrangement of the contract of the co	•
cc: Subject: Re: A	•
oubject, ke: A	
FYI: The work plan PA has put together as a result of the meeting this week	
includes model hand-offs (TBVs documented using NLP 3-15s) which will all	
GOING TO BE THE DE IT.	
smoothly this is going to go but this is the FY98 model. We're not sure he	Nur
smoothly this is going to go but this is the approach. Like you've said all	-
us to do the job). So totally supports paying for a USGS report on the FY98 approval thing.	on
approval thing.	
I've had no response from concerning my response to his request for an Fy time this year to the location. At has indicated that I constitute the terms of the location of the	
work plan using the close-out funds. The response to his request for an Fy	99
work plan using the close-out funds. A has indicated that I can charge all me this year to the 10506 account. There was also good indicated that I can charge all me that I is willing to the count.	v
time this year to the 10506 account. There was also good indication this week and uncertainty work, and to deal with FEPs addressing the 15601.	•
The 110k promised to deal with FEPs addressing the incident validation	
obes to rigure this out. Ti-	
we put together this week.	.
What I really need now are some warm bodies to review the work I've been doing	
Like the work I've been doing	. 1
Like said, "Live by the sword, die by the sword!".	
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Thanks much! Yes I warm and	
Thanks much! Yes, I very much need to take a close look at this. I was just	
has been mentioned quite a number of times this week.	
induction times this week.	
Constitution of the Consti	·
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12/17/98 12:01 PM To: cc: Subject: AP 3.100 Hello, I thought you might like an electronic copy of the new AP, Like? Wall anyway, will need to be familiar with the second copy of the new AP. Like? Wall	·.
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12/17/98 12:01 PM To: Cc: Subject: AP 3.10Q Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with Merry Christmas	02: 04 PM
12/17/98 12:01 PM To: Cc: Subject: AP 3.100 Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with Merry Christmas	02: 04 PM
12/17/98 12:01 PM To: cc: Subject: AP 3.100 Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with Merry Christmas Forwarded by 12/17/98 11:05 AM To: cc: Subject: AP 3.100	02: 0 4 PM
12/17/98 12:01 PM To: cc: Subject: AP 3.100 Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with Merry Christmas	02: 04 PM
12/17/98 12:01 PM To: cc: Subject: AP 3.100 Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with Merry Christmas	02: 04 PM
12/17/98 12:01 PM To: Book CC: Subject: AP 3.10Q Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with Merry Christmas	02: 04 PM

12/08/98	04:18 PM	
To:		
cc:		
Subject:	AP 3.10Q	

They restored our files - so here it is.

Attachment: 3

Prom:
PostedDate: 12/17/1998 11:47:08 PM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: Re: AP

I agree with your analysis. We only win if we get the final product out. I have to think through this carefully but where I'm headed is this. I and I will make sure we get the 96 report done (you need to call ASAP, just in case she needs input from you on Friday). You, on the other hand, need to start the FY99 report, assuming the FY96 gets approved. You need to lay out the changes you've made to the model, how you've tested or calibrated those changes (stream gage, neutron (I've already started working on a new neutron hole analysis which I had hoped to finish this vacation but won't be done until for the site scale as your basis for the change to the model and as the basis of the report. Then start another report, which uses the first report, to lay out the regional model. Both report will address past and future climates. That's where I'm heading but I'm not there yet. We can discuss this tomorrow.

The bottom line is forget about the money, we need a product or we're screwed and will take the blame. EVERYBODY will say they told us to go ahead without a plan or budget in place (even though said no hires). This is now CYA and said no hires). This is now CYA and we had better be good at it. I seem to have let this one slip a little to much in an attempt to cover all our work (and get us the hell out of the long term problem of Yucca Mountain) but now it's clear that we have little to no choice. In all homestly I've never felt well managed or helped by the USGS YMP folks, in fact, as you know, I've often felt abandoned. This time it's no different, or worse, and we have to work together to get out of this one. I'm still overwhelmed trying to protect the rest of the program from the ravages of what's happening in final (funding, which we seem to be blamed for because we got funding) and the current fiascoes in the That is to say we're not working on our own as we have for the past 12 years, now were being threatened (and carefully watched) by the people who use to simply ignore us. These are very dangerous time, both funding wise and professionally. Mark my words on this one, it will not be long before our technical credibility with be challenged in an attempt to discredit us and redirect funding!

Oh, by the way, you did a great job in response to request. Bravo!! (keep my last paragraph prvate or among friends, if you know who they are)

12/17/98 06:57 PM Sent by: To: cc: Subject: Re:

FYI: The work plan has put together as a result of the meeting this week includes model hand-offs (TBVs documented using his) which will all eventually be QA'd using AP (see attachment below). Is going to be the PA lead on the AP (for the FY98 model. We're not sure how smoothly this is going to go but this is the approach. Like you've said all along, YMP has now reached a point where they need to have certain items work no matter what, and the infiltration maps are on that list. If USGS can't find a way to make it work, will (but for now they are definately counting on us to do the job). It totally supports paying for a USGS report on the FY98 model, but they fully realize the problems we're having with the

approval thing.

I've had no response from concerning my response to his request for an FY99 work plan using the close-out funds. has indicated that I can charge all my time this year to the account. There was also good indication this week that is willing to support us in FY00 to continue on with model validation and uncertainty work, and to deal with FEPs addressing the infiltration maps. The 110k provided to USGS was in direct response to the telecon and was specifically intended for infiltration modeling work. I can no longer wait for USGS to figure this out; I'm moving ahead according to the work plan we put together this week. What I really need now are some warm bodies to review the work I've been doing. said, "Live by the sword, die by the sword!". on 12/17/98 06:15 PM _____Forwarded by 12/17/98 05:01 PM Sent by: To: cc: Subject: Re: AP Thanks much! Yes, I very much need to take a close look at this. I was just about to request this when I saw your note. AP has been mentioned quite a number of times this week. 12/17/98 12:01 PM */ cc: Subject: AP 🗬 Hello, I thought you might like an electronic copy of the new AP. Like? Well, anyway, will need to be familiar with.... Merry Christmas on 12/17/98 ----- Forwarded by 02:04 PM -----12/17/98 11:05 AM To: cc: Subject: AP 4 Per your request below is the electronic version of AP- as it was approved. on 12/17/98 10:04 ---- Forwarded by 📟 12/08/98 04:18 PM To: Subject: AP

They restored our files - so here it is.

Attachment: (

34

ALD.20050208.2417, EML1000 From: CN= PostedDate: 03/26/1999 01:59:05 PM SendTo: CODVTo: ReplyTo: BlindCopyTo: Subject: Status of LADS phase 1 calc. report - USGS Between you and me, I put my 6k effort in months ago. This is where we invested our time and energy in promoting, My work gets charged to planning, and actually doing the work. I'll admit that I have not devoted a full-time effort towards LADS. I've been working on the daily climate data-base, the new future climate simulations, the regional modeling, and the backlog of reports. Yes the LADS work is now behind schedule but so is everything else because I'm the only one doing this work, and I'll be damned if I drop everything else and work on nothing but LADS. I'd be very happy to just hand the work over to someone else at this point. It seems I do not have this option, thus all I can say is that the work will get done, but not by sacraficing everything else that's going on. I do not need to be developing MEO hoop jumping skills. The skills I am interested in developing are ones that will benefit the district and our careers. I'm not directing this at you. This is just to let you know where I stand at this point in time. I guess this is another one of those memos that need to be destroyed. - Forwarded by 03/26/99 10:39 AM 03/26/99 09:56 AM 🦠 ĊC: Subject: Status of LADS phase 1 calc. report - USGS On Feb. 19 I requested the following steps from USGS staff, to complete the on rep. 19 1 requested the following steps from USGS staff, to complete the calculation report for LADS And (formerly designated DF and):

1. Train to YAP to YAP for classification of software as "software" 2. Assign a DTN, and prepare a TDIF with input/output files (i.e. implement). Typically this means that all input/output files, and code listings, are put on a CD-ROM. The originating organization should be NEPO, to 3. Designate all software used in this calculation as "software routines." This means the software does not have to be qualified. The calc. report should include source code listings, description of routines and how they fit together, exact specification of compiler and CPU (with S/N's), and a test case that exercises all the routines. 4. Revise calc. report with , and software routine documentation. Note Originator signs calc. cover sheet. All pages will have the number, including the correct Rev. number. Page . Printout first draft (6. Perform internal review of report. This can be informal, or as a NEPO review implementing QAP Make revisions as required (a revised copy will have 7. Printout checking draft (increment draft number using Rev. . Rev. etc.). All pages will be marked "Checking Draft" in addition to the DI number,

8. Perform checking function, coordinating with the checking group (Manager). A technically qualified checker (as determined by the Responsible to use the checklists, needs to be identified from within NEPO.

9. Revise document, backcheck per QAP (Manager), and get Originator and Checker signoffs on calc. cover page. Get Lead Engineer's signoff

10. Submit final document with cover sheet, all drafts, markups, and review paperwork, to your representative from Engineering Document Control. Request that they close out any TBVs on the original Design Input Request, and prepare and submit the Record Package to RPC IAW I requested that steps 1-4 be completed by March 15th, and all steps by 4/15. Steps 1-4 are not complete, so this activity is behind schedule. Please help expedite this effort.

	SendTo: 03/26/1999 03:15:56 PM	
	СоруТо:	
•	ReplyTo:	
	BlindCopyTo: Subject: Status of Language	•
•	Subject: Status of LADS phase 1 calc. report - USGS	
		,
•	I will admit that I have not been conducting a 100% LADS effort because level 4 due April 30th. The bare-bones needed to meet the level milestone is now complete, but putting the actual data package together conducting the necessary reviews for a developed data package submittated delayed if I go into a 100% LADS effort (which is needed to meet the soft of a 100% effort over the next 2 weeks from the conducting full attention at 100% effort over the next 2 weeks from the conducting full attention data-packages, scientific notebooks, and general QA issues that working on, I am now very concerned that meeting both the LADS schedule level 4 milestones due in the next month or two will be stretching our support too thin. I had originally anticipated that the LADS work would ultimately require procedures. However, since this is largely a learning process for all of needed to follow this activity through to completion (although I didn't the actual engineering calculating the mount of work needed to just do the modeline.	f and l will be chedule on and up is and the QA e less USGS QA f us.
1	bad in estimating the amount of work needed to just do the modeling which the actual engineering calculation its all the follow-up work that been under-estimated), the effort has grown substantially.	do too h is has
•		
-	Forwarded by	
	on 03/26/99 1	1:58 AM
-	The state of the s	
0	03/26/99 11:52 AM	
T	O:	
-	C: I	
•		
Sı	ubject: Status of Lang the	
	ubject: Status of LADS phase 1 calc. report - USGS	•
	,	
I	have appended your memo to indicate the status of this work (see red tellow).	
be	elow).	xt
T		
	on 03/26/99 10	:59 AM
03	/26/99 09:56 AM	
To:	: CO 05.36 AM	
cc:		
Sub	oject: Status of LADS phase 1 calc. report - USGS	
	phase I caic. report - USGS	

- On Feb. 19 I requested the following steps from USGS staff, to complete the calculation report for LADS and (formerly designated DF and 1):
- 1. Train and a checker to QAP Train to YAP Also, train to APTHAN, for classification of software as "software routines." Done
- 2. Assign a DTN, and prepare a TDIF with input/output files (i.e. implement typically this means that all input/output files, and code listings, are put on a CD-ROM. The originating organization should be NEPO, to avoid complications from USGS policies. I have been working on this, but will need help from QA to expedite. QA is waiting for the CD-ROM, and this will be completed on 3/30/99. Remainder should be complete by 4/2/99, unless there are hidden requirements for large input and output files (for example, these files are approximately 21 MB each (Applications), and do not include headers. The files are fully explained in report. Inclusion of header lines will cause further delay)
- 3. Designate all software used in this calculation as "software routines." This means the software does not have to be qualified. The calc. report should include source code listings, description of routines and how they fit together, exact specification of compiler and CPU (with S/N's), and a test case that exercises all the routines. There has been progress here modifying the report to contain all necessary information and developing the test cases. This task is 50% completed. The work has gone slower than anticipated because there are several steps involved in this engineering calculation and thus a set of tests is needed. Remainder should be complete by 4/2/99.
- 4. Revise calc. report with DTN, and software routine documentation. Note that the report should state whether all input data are "Q." If not, then the calculation results should be clearly indicated as "TBV." Report being modified to contain needed information. All input data has been identified as either Q or TBV. This should be complete 4/2/99
- 5. Printout first draft (Rev.). Originator signs calc. cover sheet. All pages will have the DI number, including the correct Rev. number. Page numbering will comply with QAP . This task is complete
- 6. Perform internal review of report. This can be informal, or as a NEPO review implementing QAP Make revisions as required (a revised copy will have the next draft number, i.e. Rev. etc.). An informal review has been conducted by and all suggested modifications (including those listed above) are being incorporated. This task is 75% complete. Need help from QA to expedite
- 7. Printout checking draft (increment draft number using Rev. . Rev. etc.). All pages will be marked "Checking Draft" in addition to the DI number, etc. 0% complete. Need help from QA to expedite
- 8. Perform checking function, coordinating with the checking group

 . A technically qualified checker (as determined by the Responsible Manager), who has received the checking indoctrination training and knows how to use the checklists, needs to be identified from within NEPO.

 thas volunteered to be the checker, and is waiting for us to provide the official version of the finished draft (Rev). Both and have been providing valuable assistance in terms of interpreting procedures and providing examples throughout this process.
- 9. Revise document, backcheck per QAP , and get Originator and Checker signoffs on calc. cover page. Get Lead Engineer's signoff or (a). 0% complete
- 10. Submit final document with cover sheet, all drafts, markups, and review paperwork, to your representative from Engineering Document Control. Request that they close out any TBVs on the original Design Input Request, and prepare and submit the Record Package to RPC IAW AP 0% complete. Will need help from QA or administrative staff to expedite
- I requested that steps 1-4 be completed by March 15th, and all steps by 4/15. Steps 1-4 are not complete, so this activity is behind schedule. Developing test cases, organizing all input/output and software codes onto CD-ROM, and

completing required modifications to original document is taking longer than anticipated. I am planning to have steps 1-4 complete by 4/2/99. Although this phase is approximately 2 weeks behind schedule, there is still hope of meeting the 4/15 deadline for all steps. I am estimating a potential worst-case delay of 4/22/99.

Please help expedite this effort.

ALB.20050220.2577, EML1018:

Prom:
PostedDate: 04/22/1999 06:27:50 PM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: QA
Body:

The QA bullshit grows deeper. I may need to say that I did everything by hand for the data package I am submitting that You and reviewed. The program I wrote is not in the system and QA will be all over it like flies on 6% All references to are being deleted.

Here's my question: When we go to start QA'ing the site-scale modeling work, will I get taken to the cleaners because I am not referencing either a tech procedure or a scientific notebook? In other words, would it be cost-effective to create a SN for the site-scale work and back-date the whole thing??

*

Can't wait to be far-far away from here!

ALB.20050216.8701, EML1017

PostedDate: 04/22/1999 06:43:32 PM SendTo:

CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: QA Body:

What if you just download the raw files from Do they need to know any more than that? You don't really need to do an and say you used those? analysis just say this is the data I used. Maybe that would work.

04/22/99 03:27 PM To:

cc:

Subject: QA

The QA bullshit grows deeper. I may need to say that I did everything by hand for the data package I am submitting that You and reviewed. The program I wrote is not in the system and QA will be all over it like flies on 6%\$. reviewed. The program

Here's my question: When we go to start QA'ing the site-scale modeling work, will I get taken to the cleaners because I am not referencing either a tech procedure or a scientific notebook? In other words, would it be cost-effective to create a SN for the site-scale work and back-date the whole thing?? Can't wait to be far-far away from here!

PostedDate: 04/26/1999 02:40:15 PM SendTo: CopyTo: ReplyTo: BlindCopyTo: Subject: Re: Recharge Emergency I have the Addition files here. Not sure I know about the power-point format. Something will be sent within the next 15 minutes. Did you get the overnight. Also, much bullshit is getting generated by the developed data package you reviewed. The USGS has already far exceeded the cost benefit ratio for this product. 04/26/99 10:50 AM To: cc: Subject: Re: Recharge Emergency t format before it gets sent. I'll check the Boy, you get around, the big I'm looking for but haven't found him yet. wheels. Great. gov> on 04/26/99 10:08:18 AM

cc:

Luv ya

Subject: Recharge Emergency

time to water by 2 pm today. I and I'm hitting can't ask for

PostedDate: 11/12/1998 03:00:29 PM SendTo: CopyTo: ReplyTo: BlindCopyTo: Subject: Surface Temp Rise Events So Far FYI: just some semi-interesting bullshit. We will likely spend 50K deciding what's important, than expect the actual work in the trenches to be done for free. Don't worry, I won't buy into that. I rather be spending the time on project anyway. Oh yeah, you're not there! Hope everytning's going well with HDPs at SC pass. -- Forwarded by on 11/12/98 11:56 AM 11/10/98 04:59 PM Subject: Surface Temp Rise Events So Far I was going to try to hold another meeting next week in the interests of 'keeping the ball rolling', but the progress we have made to date doesn't seem to warrant dragging everyone out here, yet. However, I do want to keep you informed on what is going on. On Monday EIS Support to inform him of our position on the and myself met with He was scheduled to meet with DOE, for a weekly meeting Monday afternoon. He relayed our concerns about the traceability of the requirement and the fact that we may not actually be able to meet it with the current baseline AML of 83 (or 85) MTU/acre, based on the work done by 1 et al in June 1997*. "If it is a problem for design, take it out." I think that we need to look response (to paraphrase): hard at whether or not performance degrades due to temperature rise (through the complex phenomena of vegetation change, resulting infiltration change, and resulting temperature change), and possibly include a temperature requirement or something similar in the PDD, if appropriate. But the environmental concerns seem to go away at the top-level spec. We have to remember here that the public has been told that the temperature would not rise more than 2 deg C, through TRB meetings, and the sudden removal of the spec altogether may appear arbitrary to the casual observer. I don't know what to say to that...? So the important work of determining the effect of temperature rise on , obtaining the LANL report , infiltration scenarios continues. At some and PA based on the infiltration spec point I need to figure out how to fold the surface uplift portion of the requirement into our analyses, i.e., how does the uplift contribute to changes in the underlying geological structure and perhaps increase the infiltration rate and/or the number of fast paths? I would appreciate it if you folks can tell me what the status of your action items are. * - I have since verified these results: in a nutshell, an infiltration rate of 0.1 mm/year yields a temperature rise of 7 deg C at the top part of the muff layer (Tcw), and an infiltration rate of 4.4 mm/yr yields an estimated temperature rise of 11 deg C. P.S. I will be out of town starting Wednesday afternoon, and back on Monday,

November 16th. you can contact me at

43

From:
PostedDate: 04/26/1999 03:03:46 PM
SendTo:
CopyTo:
ReplyTo:
- 1 - JC-nutTO
Subject: finding a technical reviewer
D-dire
Thrompies of bullshit:
Examples of 04/26/99 12:03 11
04/24/99 09:37 AM
To:
cc:
Subject: finding a technical reviewer Subject: finding a technical reviewer that has been out of the Program long enough Is there some one like the could give us an independent review? Any ideas? I
Ts there some one like that the state and the review? Any ideas? I
that we could justly say could give us an approximant and development of a
understand from that there is a simple will probably
understand from that there is a simple ploglish will probably climate model that is involved in this developed data. This will probably involve the new house and AP which is not simple in itself.
involve the new and and Ar which
some help here in getting a reviewer. some help here in getting a reviewer. I'll be on Monday. Was in on the discussion Friday and can provide
WANDAY WAS IN ON CHE WILLIAM
additional details and follow-up. Thanks
on 04/24/99 10:28
Forwarded by
AM
04/23/99 06:41 PM
To:
cc: technical reviewer
CC: Subject: finding a technical reviewer
Contrary to what I previously thought, and I are unable at this time to
Contrary to what I previously thought, and I ale minute to the developed data package find a qualified non-YMPB technical reviewer for the developed data package find a qualified non-YMPB technical reviewer today. Please let me know how
find a qualified non-YMPB technical reviewer for the determined that was under discussion earlier today. Please let me know how that was under discussion earlier today. Also, please be aware that I
that was under discussion earlier today. Flease be aware that I best to proceed so that we can minimize delays. Also, please be aware that I best to proceed so that we can minimize data package as simple and
best to proceed so that we can minimize delays. Also, per and have deliberately made this developed data package as simple and have deliberately made this developed data package as simple and
have deliberately made this developed data package as simple that I straight-forward as possible with the intention of generating a product that I straight-forward as possible with the intention of 4/30/99. In other words,
straight-forward as possible with the intention of generalized property is straight-forward as possible with the intention of 4/30/99. In other words, fully believed could meet the original full date of 4/30/99. In other words, fully believed could meet the original full simple and has been kept to a
fully believed could meet the original due date of 4750755. In the fully believed could meet the original due date of 4750755. In the full believed could meet the original due date of 4750755. In the full believed to a the level of "data development" is extremely simple and has been kept to a the level of "data development" is extremely simple and has been kept to a

minimum.

1945 Per 2014 (2014)

PostedDate: 04/23/1999 08:56:58 PM SendTo: CopyTo: ReplyTo: BlindCopyTo: Subject: 🕽 help Body: I have to run this by you because I promised would get back to them with a game plan next week: and 📹 are pushing me to get the QA work in place for the products they need from me and are suggesting that they can help me out with software QA issues and all the grunt work required to just do the modeling runs so that needed products can be finished for the modelers to use. They realize that I am somewhat overloaded with this task so they are willing to provide us resources in terms of computing power and warm bodies doing QA and running the code. The catch for us is that the code will be on (they can dedicate do the number crunching.... they will give us accounts so that we can to these machines). I have been given a verbal promise that we will not lose control of the code, and the goal is to get the job done, not to take over our work. The personnel would in essence be working for us, not the other way around. I am thinking that If I want to remain viable team player on YMP (which may translate to continued funding), I need to show that we can get the job done and provide the modelers with the results they need. This is not going to happen if I rely solely on USGS YMP resources. For example, dedicate a person to do all of our software configuration management stuff and help us out with input parameter QA issues. This strategy sounds much more appealing to me now because I'm getting the impression that unlike USGS QA, the labs have the QA resources to actually get in there and do the work, instead of just creating more work for the pto do. The other option would be to stall, and then when I'm in I will just ignore all this, and we can let the site scale modeling go down the tubes. Dealing : with this QA bullshit is really starting to make me sick.

From:

PostedDate: 04/22/1999 07:05:17 PM

SendTo: CopyTo:

ReplyTo: BlindCopyTo:

Subject: Re: QA

Not a bad idea. I am now considering it. Ideally, one would assume that the more information you provide QA, the better the QA. In reality, it seems that the opposite is true. At any rate, its a damn shame to be wasting time with this sort of thing.

04/22/99 03:43 PM

To: cc:

Subject: Re: QA What if you just download the raw files from and say you used those? Do they need to know any more than that? You don't really need to do an analysis just say this is the data I used. Maybe that would work.

04/22/99 03:27 PM

To: cc:

The QA bullshit grows deeper. I may need to say that I did everything by hand for the data package I am submitting that You and reviewed. The program Subject: QA I wrote is not in the system and QA will be all over it like flies on £8#\$.

All references to are being deleted.
Here's my question: When we go to start QA'ing the site-scale modeling work, will I get taken to the cleaners because I am not referencing either a tech procedure or a scientific notebook? In other words, would it be cost-effective to create a # for the site-scale work and back-date the whole thing?? Can't wait to be far-far away from here!

Prom: C
PostedDate: 11/15/1999 11:44:41 PM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: Thanks for the cool refs
Body:
These references are proton and the cool refs

These references are pretty cool. Thanks for leaving them, it looks like usable stuff. Why can't I do this? What's my problem? Well, maybe its that I'm just now getting the stupid data package off to the correct person. I re-sent it to who responded from a laptop in that I should just re-send it to soon the QA experts will want to know where the which I just did. Pretty files came from. Here they are: Don't look at the last 4 lines. Those lines precip are a mystery that I believe somehow relate to the work in entering the 1994 data. These lines are not used by was doing 9/30/94). I've deleted the lines from the "official" QA version of the files (which do have headers). In the end I keep track of 2 sets of files, the ones that will keep QA happy and the ones that were actually used.

The files are the output from the database that together, which I still have but haven't looked at since 1996. So either the data package has to look a lot like those files or I'm going to have start talking about the database when the QA questions start. My guess is that we do not want to deal with the database. Here it is almost 2000, and I am still struggling with work done in 1995 and

P.S. Let's make QA read those references too. Better yet, let's set asside a

PostedDate: 01/06/2000 07:01:30 PM SendTo:	
JULIANO V V	
CopyTo:	
ReplyTo:	
BlindCopyTo: Subject: Re: AMR	
Body:	
called. Yes, this is really happening. and will help but	•
it seems I am stuck going to the on the 26th and and will also go for moral support). Responses to the comments are due on the 21st.	
There is, of course, no scientific notebook for this work. All work is in the form of electronic files. I can show auditors input, output, and program files, but it is not clear to me how to show documentation of work in progress. They may be expecting to see something that at least looks like a scientific notebook documenting work in progress. I can start making something up but then the projects will need to go on hold.	
If I continue placing tasks as 1st priority for January, I will be ill prepared for the audit, and will likely get hammered. That's fine by me. I am far more concerned about the projects than I am about the suil be rather unhappy, and I will need help trying to figure out = good excuse why 100% of my time did not go into the audit without revealing the projects.	**
I am open for suggestions.	
01/06/2000 11:21 34	
To:	
cc:	
Subject:	
on 01/96/2000 11:21 AM	
01/06/2000 10:25 AM	
To: To:	
cc:	
The second secon	
Subject:	
FYI. Forwarded by 1 on 01/06/2000 10:25 AM	
On 01/00/2000 10:25 AL	
01/05/2000 09:52 AM	
To:	
cc:	
Subject: ****	
on 01/05/2000 09:57	
AM	
01/05/2000 08:56 AM	
To:	
cc:	
Subject: Sub	
" which is being	

developed by USGS, as the fourth AMR to be evaluated $r \leftarrow placing$ the AMR Analysis of Geochemistry Data. We need a copy of the latest revision immediately. When is the earliest you can get me a copy?

We will schedule the interviews with the originator of this AMR for Wednesday, Jan. 26. Please make arrangements for the appropriate USGS personnel to be at Notebooks and the check/review documents. If different colors were used for the check/review comments, we will need to see colored copies or the originals for this and all the AMRs. We will notify you of addit i cral records will need to see for the AMR that will need to be available. We will try to keep the number of documents that USGS will need to bring to a minimum.

this AMR for Wednesday, COpies or the originals

÷::.

ALA.20050220.0030, EML1015

OU=YM/O=RWDOE From: CN=J PostedDate: 01/13/2000 02:16:17 PM SendTo: CopyTo:

ReplyTo: BlindCopyTo: Subject: test

Body:

I have been having major networking headaches. There are several reasons for this; 1. The USGS is converting over to LOTUS Notes in the district and this seems to have impacted the routing of my email, even though I am connecting 2. My computer doesn't even directly to YMP Lotus Notes computer right now). So see my network card anymore (I am using when I fix problem #2, I can start attacking problem #1. I have identified 4 potential mean monsoon climate analog sites and have been running the test simulations but did not finalize my selection yet. This has all gone slower than I thought because I have been "ordered" to deal with software QA and other QA issues because of this upcoming AMR audit. Also, the LBNL technical reviews hammered the AMR (these deal with the physical processes being represented by the model), and I haven't finished responding to these yet. These are all top priorities which unfortunately have once again gotten in the way of work I was trying to do for the uncertainty analysis. On the other hand, providing a sound defense of the net infiltration AMR ultimately benefits the uncertainty analysis AMR as well. Thanks again for the review you provided I did get my password for the Alphas.

From: PostedDate: 02/17/2000 07:14:48 PM				•
SendTo: 5271772000 07:14:48 PM				
CopyTo:				
ReplyTo:				
BlindCopyTo:				
Subject: finally the darn coordinates				
			٠.	
Body: I finally took the time to process your request	Phis vocation			
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ALD.20050208.1519, EML1000

/OU=YM/O=RWDOE From: CN= PostedDate: 01/04/1999 02:27:49 PM

OU=YM/O=RWDOE@CRWMS SendTo: -CN=

CopyTo: ReplyTo: BlindCopyTo:

Subject: I'm buried

schedule. I smelled I'm going to get hit real hard next few months by some Fy00 funding so I let myself get pulled in, but this is going to be a real 3-ring circus. In some ways I feel like I've gotten myself into a corner by trying to champion the site-scale infiltration modeling. What I really want to do, (and I've known this for a few months now); is to wrap up the site-scale modeling and move on to a longer term plan.

on 01/04/99 11:12 AM Forwarded by on 12/31/98 09:13:37 AM cc: 1 Subject:

I would like to obtain an electronic output file from soon so I can start writing a procedure to transfer to a file for sensitivity/uncertainty analyses.

never mind the first attachment, these are the work plan document drafts.

- CLIMAT-1.DOC - INFILT-1.DOC

- CLIMATE.DOC

Attachment: CLIMAT~1.DOC Attachment: INFILT-1.DOC Attachment: CLIMATE.DOC

PostedDate: 03/07/2000 11:09:00 PM

CopyTo: ReplyTo: BlindCopyTo:

Subject: developed daily precip record

believe it or not, this file is now 3.5 years old, but it is what was used. This developed record stops on day 274, 1995. The only real good thing about this file is we seem to be very close to getting it into the TDMS (the data was developed in a turned to worksheet that may now be required to go through qualification as a software routine, so things have yet again stalled). Someday I hope to have the time to update this to include an improved pre-1987 interpolation and all the new data after 1995, which includes some interesting events..... back to QA. P.S. Hope this email doesn't trigger a input request. I'll probably get

fired.

Attachment #

Prom:
PostedDate: 03/09/2000 10:39:31 PM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: vegcov01
Body:

has a user option which when set to 0 the vegtypes in the file (created by the damn routine (created by the control of the veg cover stuff (coot-zone parameters) all get defined in the control file. The veg-type and veg-cover columns are just dummy place holders that are not even used by (created by correlating something, anything, to vegetation...). But because (correlating something, anything, to vegetation...). But because (correlating something, anything, to vegetation...).

The main stupid thing is that as a 1st step I render with the user option set 2 to create from the form the form the setting causes a veg cover estimate to be made based on the vegtypes defined for the regional model (data from the land land). I was desperately trying to bring vegetation into the picture (still wasn't getting what I needed from the bugs and bunny crowd) but it didn't match up as well as I had hoped, I ran out of time, and it fizzled.

Now here is the majorly stupid part. To create the majorly stupid part to create the majorly stupid part to create the majorly stupid part. To create the majorly stupid part the majorly stupid part

So I would like to keep as is, tell the story just as it happened, and than explain that we don't have to trace because it was not used (we cannot bring into the picture because then we have to deal with the input file which is the geospatial input file for the region!). In fact we can just not even talk about the vegtype and vegcover stuff and just say those are dummy place holders that are never used so they don't need to be traced.

On second thought...do whatever you want. At this point I cannot re-produce the blocking ridge numbers using and I have yet to re-visit the elevation stuff was finding and who knows what will happen if we tried to run and on any of the source data going into the the top layer of the cascading bucket model, the soil ks conversion is off by a factor of 10, and even if I can re-produce the blocking ridges they're still wrong. Then there are those strange non-integer values that I saw for the 1st time in the Day and others input file during my testing of the late of the cancel of the cancel of the cancel of the cancel of the late of late of the late

ReplyTo: BlindCopyTo: Subject: Installations Body: The programs, of course, are all already installed otherwise the AMR would not exist. I don't have a clue when these programs were installed. So I've made up the dates and names (see red edits below). This is as good as its going to get. If they need more proof I will be happy to make up more stuff, as long as its not a video recording of the software being installed. Porwarded by O3/29/2000 03:13 PM
the dates and names (see red edits below). This is as good as its going to get. If they need more proof I will be happy to make up more stuff, as long as its not a video recording of the software being installed. Powerded by for a software being installed.
PM
03/29/2000 03:13 pm
To:
bcc: Subject: Installations I'm trying to follow-up on this request, but I need your help. Please respond back to me, asap, with the appropriate answers to the questions is seekingthanks.
on 03/29/2000 03:08
03/29/2000 01:52 PM ;
Subject: Installations Good Afternoon (1975):
I am following up on our conversation today about the installations I have pending. The installations are for Unqualified Software Code.
The installations are for Unqualified Software Codes under section of APPLIANT (1/1/1998)

PostedDate: 04/04/1999 12:03:31 AM CopyTo: ReplyTo: BlindCopyTo: Subject: Re: Precipitation estimates Body: Here's my perspective: Have you looked at the latest EOS? The article on nuke waste and Yucca Mt. states that the amount of water that will be contacting waste canisters is still the key issue for repository performance. The primary factor controlling flux thru the infiltration rate. Some nights I have a hard time going to sleep because I realize the importance of trying to get the right answer, and I know how many serious unknowns are still out there, and how many quick fixes are still holding things together. I'm just trying the best I can with 3 equations and 15 unknowns. It seems so odd that we've had to push so hard just to get even a little support for this work, and at the same time we end up being the ones most responsible for whether the predictions are right or wrong. I'm looking forward to putting the YMP nonsense far behind me. I ran you're sublimation model and the entire snowpack sublimated. I have a 3rd model now which just uses a lower percentage of Sublimation using this model comes to about 20% of the total annual snow fall, but the term includes sublimation above freezing, which thus includes evaporation from the I found out our calculation goes snow pack, in addition to melting. negative when air temp drops below about -20 deg C, which happens once in climate, so this just gets set to zero for now. It while using the climate, so this just gets set to zero for how. It causes to go from about 805 mm/year to 805.5 mm/year, so this was not a significant problem. I'm driving out to I'm bringing the lap-top. disks. I need to start a number of models running on the and lots of office, then take Friday off Alpha. I plan to work Tues - Thurs at the and drive back Saturday. The LADS stuff will fall a little further behind but that's too bad because the has now become my highest priority. and everything is already in full swing at this end. We've contacted I'll see everyone 1st thing Tuesday morning. Happy Easter! 04/02/99 10:19 PM To: cc: Subject: Re: Precipitation estimates Here is a clue. Thas clued in as to why he thinks knows is smart. doesn't want to be wrong (who does?). covering his ass. You might be the cover. You and I both know the estimates

God, I love working on San Gorgonio and the Mojave.

peer pressure is dangerous but sometime it is necessary.

were too high. We talk about it at length.

04/02/99 03:19 PM

is coming around. Science by

cc:

Subject: Precipitation estimates in VA

PVT

I'm a little confused by the memo below. The table in VA indicating the MAP (mean annual precip) and MAT (mean annual temp) values for the predicted future climates were in place before the simulations that I was running at the time were even finished. By coincidence, the MAP values for the South Lake and Area 12 Mesa simulations approximately matched (they turned out to be about 10 % higher) the super pluvial and long-term average MAP values (450 and 300 mm/year) listed by the super pluvial and crowd, so we provided these results to PA because nothing else was available at the time, and everyone figured it would be better than nothing. Of course, everyone was warned that the results were preliminary, the MAT values were probably off, and changes in vegetation were not being accounted for, among other things.

To date, you, (although he may have forgotten), probably and me, are the only ones that know that the effective MAT value for both the Area 12 Mesa and the South Lake simulations was about 5 deg. C.

Anyway, the memo below really bothers me because I believe that had set the MAP and MAT values in VA before he even knew about the simulations we were doing, and now he's suggesting that his estimates were high because he knew that we wouldn't be handling temperature changes.

Now has selected analog sites having MAP values in the 420 mm/year range for representing the upper bound climates (wettest potential climates) for both the "Monsoon" and "glacial transition" climate predictions. So should I now assume that later on will suggest that these estimates are too high and that he was really just trying to compensate for the way we were modeling things? If this is the case then I would rather just be defining the future climate scenarios myself. My gut feeling is that these climates are a little too wet (although the lower bound climates seem much more reasonable), and I'm questioning the validity of a Monsoon climate kicking in at 600 years from now. It seems to me that the geography of moisture sources and blocking Mt. ranges would not allow for a climate to occur at Yucca Mt.

on 04/02/99 02:47 PM

on 04/02/99 09:36:11 AM

cc:

Subject: Precipitation estimates in VA

relating to climate estimates used in the VA and in general. I am in agreement with that the mean annual precipitation estimates used in VA are too high. They were set high to compensate for VA not being able to deal with gains in effective moisture, due to the lower mean annual temperatures during the glacials. If the (as the and I discussed) ran the VA model with realistic average MAPs for the "superpluvial" and the "long term average" without accounting for lower MATs, the VA output, in my view, would have been seriously flawed, because both temperature and precipitation are key drivers of infiltration.

From:

PostedDate: 11/05/1999 01:23:16 PM

CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: PMR/AMR Issues

Body:

sounds great. I'm moving a computer up to 5th floor so my email isn't at one place while my phone is at another. I may have found a worksheet where you did the fracture density estimates. I keep finding bits and pieces of work we've done scattered around in boxes and across disks. I'm going to make damn sure I stay organized from here on out.

11/05/99 08:52 AM

To:

Subject: Re: PMR/AMR Issues

You know, we sat in that meeting on Wed. in figure and repeatedly said that "we" made mistakes and "management" didn't figure things out in time. I lay this responsibility completely in his lap. I (we) have not been made aware of the scope of this AMR mess and my (our) TPO should've done so quite some time ago. Then it wouldn't have been shit on time (almost) because his people in the trenches would've understood the scope and schedule in enough time to focus resources properly. How can we deal with a problem when we don't know what it is? All we can do now is clean up the mess as well as we can and save his butt. Can we meet sometime today? How about lunch?

ALB.20050222.2090, EML1014

OU=YM/O=RWDOE From: CN= PostedDate: 01/26/1999 03:49:22 PM

OU=YM/O=RWDOE@CRWMS SendTo: CN=

CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: Work plans

Body:

I'll talk to you about this more after I get back from SN training. I've re-scheduled my trip for Monday & Tuesday next week (arrive Sunday night).

01/26/99 12:25 PM

To:

Subject: Re: Work plans Just a caution. doesn't know about worksheet, at least not the one we're using. She disapproves of our methods and if she finds out she'll give us shit about it. What we do is take the money and balance out the hours to match. What she wants if for us to tell her how many hours it will take to do the work and only ask for that amount of money. If we have to much money for the FTE she want's us to give back the money. We don't agree but can't tell her that so we do an end run with the worksheet. She is a stickler for the rules (her rules) but I'm a stickler for the science. I need the leeway for bringing on additional FTE, when I need them. As things heat up so will demand for our time, especially with the them. You sound like you already have a plan on how to deal with it. That's good. I know you believe that we should only do what we're paid to do and you're right, we're not paid to write journal articles, give professional talks, or write proposals for future funding, I'm sure our managers will take care of us in the future, so I'll leave that decision and that belief to you. I have other things I need to do in life.

ALB.20050216.7440, EML1017

From:
PostedDate: 05/01/1998 06:03:01 PM
SendTo:
CopyTo:
ReplyTo:
BlindCopyTo:
Subject: qa shit
Body:

Attachment: 35341txt.wp6

PostedDate: 10/20/1998 09:57:57 AM

SendTo: CopyTo: ReplyTo:

BlindCopyTo:

Subject: Re: Additions to DRAFT--DOE Requests for Possible Fy99 Additions

This is a gamble but I'll take the OK and make them eat shit is the long run. They WILL NOT go into a license scenario with the model we have now, and particularly with demanding changes. Don't sell out.

PostedDate: 02/23/1998 12:03:56 PM

SendTo: CopyTo: ReplyTo:

BlindCopyTo:

Subject: Re: stuff

Body:

My response.

----- Forwarded by

on 02/23/98 09:10 AM

02/22/98 10:28 PM

cc:

Subject: Re: stuff

you are just starting to wake up to what the hell is going on in the Yucca Mountain project. I can't teach it to you. I've learned, and that's why I'm in in I would have liked to bring more people with me but nobody ever figured it out as much as I tried to tell you. I couldn't do it directly because you have to learn by experience. Once you learn, you learn. There is more to it than you think, that's why I'm still on the project. They won't get You are on the verge of figuring this shit out. Good luck.

ALD.20050208.5099, EML1000

From:

PostedDate: 02/23/1998 01:28:26 AM

SendTo: 🕹 CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: stuff

Mountain project. I can't teach it to you. I've learned, and that's why I'm in I would have liked to bring more people with me but nobody ever figured it out as much as I tried to tell you. I couldn't do it directly because you have to learn by experience. Once you learn, you learn. There is more to it than you think, that's why I'm still on the project. They won't get rid of me. You are on the verge of figuring this shit out. Good luck.

ALD.20050208.3057, EML1000

SendTo: CN= OU=YM/O=RWDOE@CRWMS

CopyTo: ReplyTo: BlindCopyTo:

Subject: Re: FW: infiltration maps

Body:

Just an example of the Hub-bub I was talking about. I spent the whole weekend working on the AMR. Probably I wiil need to cut way back on my original visions of what the final product should look like (of course in my mind the infiltration modeling should be its own PMR). Its too bad because I wanted to truly document how the infiltration modeling is done (counting on this so he can cut and paste into the new). Its still shit on

08/23/99 09:05 AM

To:

Subject: Re: FW: infiltration maps

Both the climate and infiltration AMRs are now late for checking by 10 days. As you know the PMR lead is held responsible for all such "bad" activities. Please provide me with a reasonable estimate of when I can expect to recieve these AMRs for LBNL checking.

08/23/99 07:23 AM

To: YM/RWDOE@CRWMS

Subject: Re: FW: infiltration maps

I have an input request that I received last week - we'll work it this week. The requests need to go to the responsible manager for action.

1.4

4.50

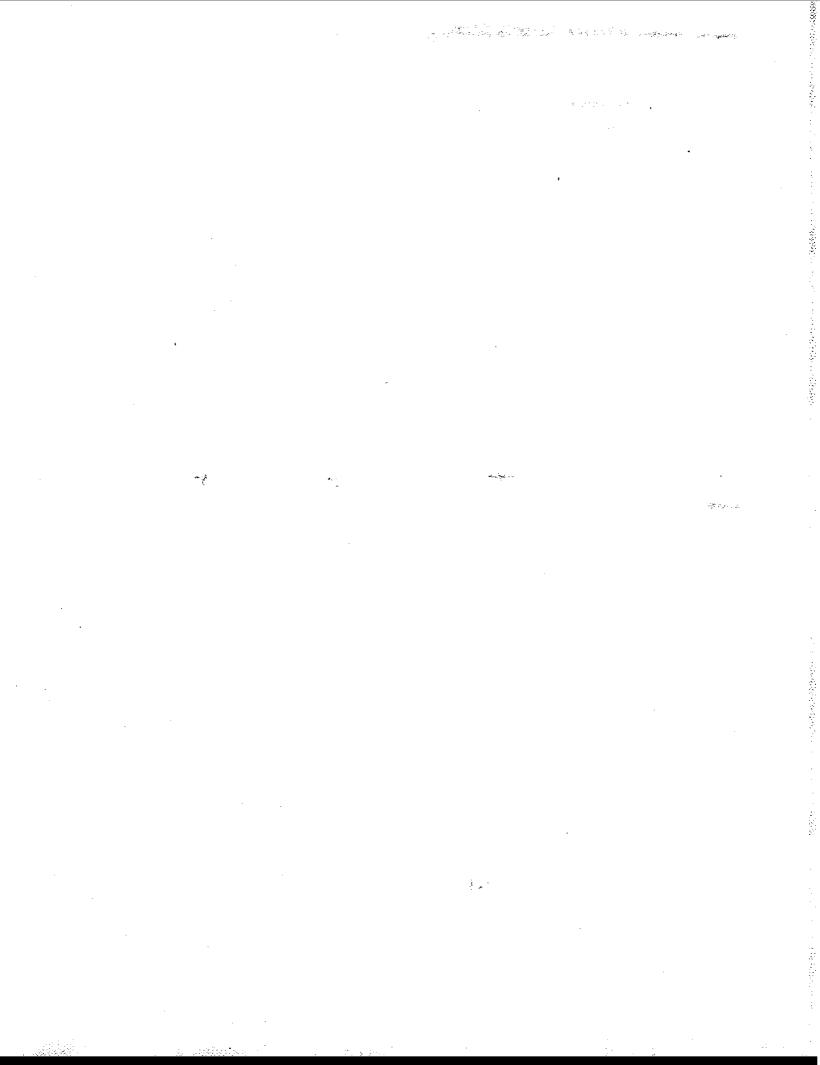
08/20/99 01:55 AM

cc:

Subject: Re: FW: infiltration maps

Cliff,

The catch-22 is that I've been busy trying to finish up the AMR and thus haven't up-dated myself on the status of the the I. I recall discussions between myself and LBNL regarding a formal data transmittal, but I'm not sure if an was called out (I'll need to double check my records) because the official data release date was 5/21/99 (check the file dates) and transpired as an official memorandum from the I to II. If we need to retrofit this transmittal with then we'll do it, but I've assumed the completion of the AMR has highest priority. I'm also assuming that until the AMR is complete the American only be submitted as TBV. Along these lines... there's been discussion of whether it is best to have a single encompassing DTN for all the FY99 net infiltration modeling results or separate DTNs for each of the 9 files distributed. We may need to just go with whatever is most efficient with QA resources, although there are advantages to having the separate DTNs for end users (this was my original intent), especially in terms of distinguishing between the modern climate and potential



Documents

Enom

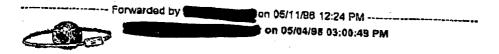
Department Of Interior 05/11/1998 12:44 PM

To:

Subject: UZ Flow (+climate+infiltration) section for TSPA-VA document This email is currently marked "Relevant and Not Privileged"

FYI. Still don't know quite how to handle the air temp glitch. I'm continuing to keep mum about this, but, from a scientific integrity standpoint, it is tempting to let the end users know exactly what was provided to them in terms of effectiviley cooler future climate simulations. Problem is, I con't know how to do this without looking bad. If we can let it all pass without trying to attach DTN numbers to these results (the prefered choice), then I can forget about it and just concentrate on getting results out for the new model. they (DOE) force us to put DTNs on these things; I would rather the truth come out sconer than later.

Don't need to respond to this, we can talk about it later.



To: DO: Subject:

X-Sun-Datá-Type: text

X-Sun-Data-Description: text

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X-Sun-Concent-Lines: 15

To all --

Attached is the first draft of the U2 Flow section (which includes climate and infiltration as well as flow) for the TSPA-VA document. It is in two Word 97 files, one for the text and one for the figures. We are already schedule in submitting this section to the VA Electronic Storyboard, to I would appreciate any comments or suggestions you may have by the end fithis week (May 8). It is about 15 pages of text, and several figures. ou are welcome to comment only on the sections that you are interested in. if course.

If you can't read the Word 97 files, let me know and we can get it to you in

X-Sun-Data-Type: default-app X-Sun-Data-Description: default

X-Sun-Data-Name: vauz.doc

X-Sun-Encoding-Info: unencode x-Sun-Content-Lines: 2222



To: CC:

10/29/1998 04:41 PM

Subject: Re: Design Features 23/24 - Period of Effectiveness

This email is currently marked "Relevant and Not Privileged"

enjoyed the ranting and raving. We're trying to work with the engineers because thats where the funding's going. Leveling the top of the mountain seemed humorous but it gave me the chance to make some more cool figures. This little task is history now. Wait till they figure out that nothing I've provided them is QA. If



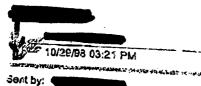
10/29/98 03:31:59 PM

To:

Subject: Re: Design Features 23/24 - Period of Effectiveness

This sure is an interesting viewpoint. The desert pavement forms on areas where the slope is generally less. man to 2 percent. You don't generally see pavement on slopes of 10% or more. The other idea that I love is and ineered modifications. As he notes, the natural system is very stable, so why do we have to fool with it. The other idea they are not looking at is caliche. In area where there is well developed caliche, one could ex, act erosion to that surface but then extremely limited erosion of the well cemented carbonates. These are usually old truncated surfaces that have had new material deposited on them. These show part of the erosion/deposition processes that occur in arid environments. The natural system exists for a reason and it got there without engineers screwing with it. I am starting to rant and rave so I should get back to my other

Thanks for sending the information to me. I find these things interesting.



To:

Subject: Re: Design Features 23/24 - Period of Effectiveness

FYI: The engineering perspective on this. I meant to send this earlier (If I already did, Ignore this... I may



on 10/29/98 02:24 PM --

gov on 10/28/98 04:26:21 PM

Jer. d/1998 01:47 PM Subject: Re:

This email is currently marked "Relevant and Not Privileged"

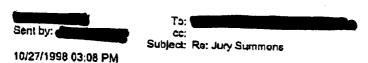
i'm finishing up the infil report (concentrating only on those items originally requested me to look at ... I talked this over with yesterday). I've been meaning to send you a program that will convert the 6 regional strips you have back to the original ".inp file format, but I got sidetracked a little with the planning stuff. Let me finish infil and I will get you the code (I'm close to finishing it). I wanted to have these simulations running this week. But I also wanted you and to look at what I'm using for effective permeabilities. I'm trying to clean up a worksheet I have so that you and can understand it.

As far as goes, there are several areas that we can always use help in; programming, GIS, and anyone capable of getting a simulation going, compiling the results, creating maps and graphs of the output, and helping me compile and update the climate database, streamflow records (along with any code, but even some part-time help from someone with programming skills would be a tremendous boost seep things going (the small re-formalting program above is a great example), and to have software QA dilema. At least we are making an effort to improve out GIS expertise.

(~)(po)(s) ~ ~o)(a)(s)(s

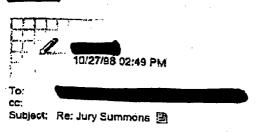
As far as the stuff and the regional stuff goes: 1. We never seem to be certain about the funding level from until the planning is over and done with I wanted to have a backup to keep the regional effort going. 2. We are doing the same amount of work on the regional scale wether we get the money for the same work on the regional scale wether we get simulations in the like we'll get paid twice for the same work (and I don't feel bad about this considering how little we're getting paid for the work this year in my mind it will all even out in the same). 3. I'm still not convinced that there will not be another round of planning where we have to try to cut

besize... : spent too much time or this email... gotta go!

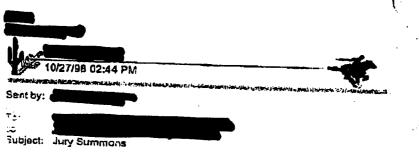


This email is currently marked "Not Relevant"

Hey yeah. If its not registered than it can't be important. I think scared me (something about a \$5,000 fine). So back to my usual strategy. But does this mean that our nation's juries are filled with ocopie who have nothing better to do (or who hate their jobs)? Some college grad sociology - law - paristics major should do a study on this.



That's odd, I have never gotten one. My kid's must have lost it when they got the mail and since it wasn't ragistered mail there is no way to know that I actually got it. Even if I did get one and my kid's lost it I have lever heard back from them that i in fact ever got one so they must not care terribly much if my kids get the mail and loose the summons. I just don't know what to do with my kids somedays when terrible lose of mail occurs. On well, I guess if anybody really wanted me they would send me a registered form. You know how the mail is these days. You just can't count on anyone getting the mail to you, especially little



I've been summoned for Jury duty. I can't do this. My wife tells me this is not something I can just ignore (my usual strategy). The instructions on the summons tell me to show the summons to my employer prior to calling the court. Should I send a fax to you? How does one proceed if one cannot at this time be a

Help!

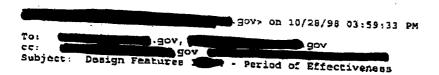
To:

cubject: Re: Eesign Features 2 - Period of Effectiveness

Thought I would put in my 'two bits worth" on this subject. Afterall, the DF's life expectency has a lot to do with the engineering design. I would welcome comments.

The design for calls for armoring the soil blanket with rip-rap. In nature, desert nature that is, the rip-rap is called desert pavament. We can see that the desert pavament effectively protects the soil from wind, rain, anow, sleet, etc, so that the mass transport erosion is confined mainly to the washes. If the rip-rap is applied properly to imitate desert pavament? Also, the average erosion rates there are extremely small enough to make a the average erosion rates there are extremely small erosion rates with the rip-rap protection? If we look at the ages of the hillslopes at YM, we see is ranges from 170 to 760 km. I would not suggest that our engineering effort could last this long, but it is certain to last teast 1 km., and possibly 10 km's or more (100's of km's?). I proposed at one time a very conservative approach with 1000 years. Let's face it, our modifications to last just as long? Comments?

For design (), I would think that this would last somewhat shorter than . Eventually, chemical, and mechanical erosion of the bedrock will creat soil over the exposed bedrock. I am not sure how fast it would form, but it would be very slow. I would think that the 1000 year life would be



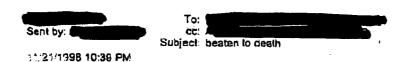
In the analysis of assumption regarding how long these surface modifications remain effective.

in you fellows suggest a reasonable range of time periods that can be resigned to these two features? I propose doing RIP calculations where the infiltration maps are changed depending on the time period of DF effectiveness.

Alternatively, if you can provide a technical basis for assuming these would be effective for 10,000 yra, this would work

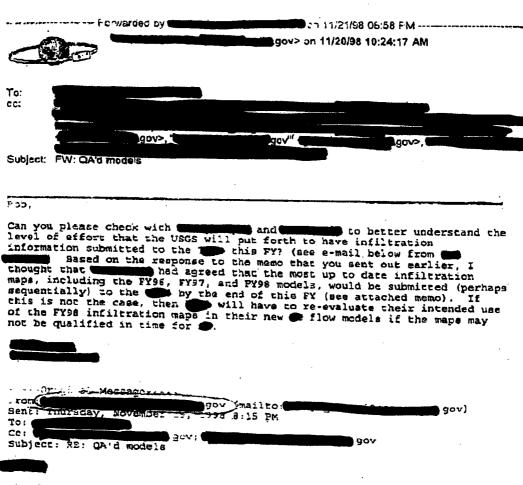
We will need this input from you this week in order to stay on schedule.

1, 1



This was sown response to my response to his question (which I tried to be as honest as possible about), without any intentional provocation on my part. In some ways this is getting bizarre; one never knows how far along an old memo will get passed, or even what context it will end up in (for example, has no idea that his memo to got pasted into this thing, so I'm coing him on this). As I understood from your last memo, there is a point at which we run the risk of beating something to death, and I'm in full agreement on that. Please be assured that I've placed myself in a "walt and see" mode for now.

I'm paranold enough now that I almost couldn't send this.



The model report has been re-submitted for USGS Director's approval.

alente in a per entre alente in terrenomen.

一、日本的教育的教育的一种特別教育。

has been the main force behind dealing with the latest round of editorial reviews and pushing the raport forward. When Director's approval is granted, I am assuming the FY96 model will be in the although we may be required to submit additional supporting information (we are still in the precess of finding this out). There is also a chance that the report will not be approved, and will require additional work and/or modifications. Unfortunately, the process of Director's approval is largely beyond our control. Past experience has shown that it is always best to assume additional work and/or modifications will be needed. It and rate we are still hoping for end of December on this, but cannot make any guarantees. If additional OA work is needed, it may become a problem because at present we are not in a good position to do this. I'd say a 50% probability of completion.

he 96 model includes only the current climate base-case net infiltration ip, and a wet and dry year current climate simulation. We still need ntil April to get the 97 future climate 100-year simulations into the DMS. Again, no guarantees, especially in light of major uncertainties that continue to exist, and thus I can only give a 50% probability of completion.

Bottom line is, our position for making any FY99 commitments at all is still poor to nonexistent.

.gov> on 11/19/58 12:26:45 PM

To:

Subject: RE: funding woes

hat is the status of the FY96 model being submitted to the TDMS? I hought you said that the FY96 infiltration maps could propably be submitted to the

> by December.

----Original Message----

From: gov [mailto; Sent: Wednesday, November 18, 1998 4:10 PM

To: Subject: Re: funding woes

another example of an apparent disconnect between 1.2.5 and 1.2.3. That is your source in regards to the 1M provided to the USGS? If this is run then the funds seem to be getting funneled in the wrong direction.

----- Forwarded by 03:06 PM -----

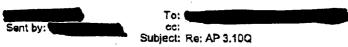
on 11/18/98

11/18/99 01:19 PM

Subject: Re: Discussion with

(Document link not converted)

As far as I know there is no funded milescone for December. The milestone we tried to get was not a milestone but an accompted to get the FY96 map in the . There is no funding. Ferhap DOE should be honest with the and tell them they are not funding an infiltration map this year.



12/18/1998 02:25 PM

This email is currently marked "Relevant and Not Privileged"

Wow! Thanks for this very thoughtful and philosophically charged wealth of advice. I here exactly what you say. YMP is looking for the fall guys, and we are high on the list. I got a strong feeling at the meeting that high level folks are starting to pay very close attention to who they will come after when things hit the fan. Who got how much funding at what time will all be long forgotten when the lawyers start challenging credibility of results. It was made clear that this will be like the OJ trial, where results are completely thrown out because of minor procedural flaws or personal attacks on credibility. As told the lawyer who was there, YMP doesn't stand a snowball's chance in hell of making this work if that is the approach.

As far as the 98 and 99 modeling, I'm starting the write-ups now. Much of this is already being covered in the and so I can kill 2 birds with the same stone. I much as I think may help us out with some things. I am going to be very careful that the doesn't end up taking credit for our work.

To:
CC:
Subject: Re: AP 3.10Q 🖹

I agree with your analysis. We only win if we get the final product out. I have to think through this carefully but where i'm headed is this. The and t will make sure we get the 96 report done (you need to call ASAP, just in case she needs input from you on Friday). You, on the other hand, need to start the FY99 report, assuming the FY96 gets approved. You need to lay out the changes you've made to the model, how you've tested or calibrated those changes (stream gage, neutron (I've already started working on a new neutron hole analysis which I had hoped to finish this vacation but won't be done until later I'm sure)), what the results are, and what difference it makes. Do this for the site scale as your basis for the change to the model and as the basis of the report. Then start another report, which uses the first report, to lay out the regional model. Both report will address past and future climates. That's where I'm heading but I'm not there yet. We can discuss this tomorrow.

EVERYBODY will say they told us to go ahead without a plan or budget in place (even though said no hires). This is now CYA and we had better be good at it. I seem to have let this one slip a little to much in an attempt to cover all our work (and get us the hell out of the long term problem of Yucca Mountain) but now it's clear that we have little to no choice. In all honestly I've never felt well managed or helped by the USGS YMP folks, in fact, as you know, I've often felt abandoned. This time it's no different, or worse, and we have to work together to get out of this one. I'm still overwhelmed trying to protect the rest of the

program from the ravages of what's happening in founding, which we seem to be blamed for because we got funding) and the current flascoes in the flascoes in t

Oh, by the way, you did a great job in response to request. Bravol!

(keep my last paragraph private or among friends, if you know who they are)

To:
cc:
Subject: Re: AP 3.10Q

I've had no response from concerning my response to his request for an FY99 work plan using the close-out funds. That i can charge all my time this year to the account. There was also good indication this week that is willing to support us in FY00 to continue on with model validation and uncertainty work, and to deal with addressing the infiltration maps. The provided to USGS was in direct response to the telecon and was specifically intended for infiltration modeling work. I can no longer wait for USGS to figure this out; I'm moving ahead according to the PA/Sandia work plan we put together this week.

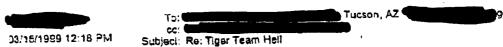
What I really need now are some warm bodies to review the work I've been doing.

Like word, die by the sword, die by the sword!".

Forwarded by

on 12/17/98 06:15 PM

Thanks much! Yes, I vary much need to take a close look at this. I was just about to request this when I saw your note.



This email is currently marked "Relovant and Not Privileged"

and i have been trying to figure out what's really coming at us with the tiger team effort. So far we've learned that they don't have a solid plan of action yet. I've formulated a "potential impact list" that is prioritized according to what work gets impacted 1st; 1. FY99 support to (includes all the workshop stuff), 2. regional recharge report, 3. site-scale infiltration modeling report. Some of the work the it effort calls for was scheduled under 22001 QA anyway, but we started hearing rumors of things like re-doing all the QA work for the neutron logging data, which will stop us dead in the water.

Now I'm going to give you the inside scoop: I'm going to continue the regional modeling, even if it means ignoring direct orders from YMP management. I'm also going to be working on reports, even if it means ignoring direct orders from YMP management. and I have a pretty clear vision of the type of work that needs to be done to stay alive for the long-haul, and it very definitely involves getting product out there for the users and the public to see. The Death Valley regional modeling work fits that bill. Screwing about with light teams does not. In the end, its going to be the reports that move everything else remard. Tiger team efforts will just be vaporized.

So, the work may be slowed, but I will not let it stop. At this point, I am still working to the plan that we've all spent a significant amount of time on to make things happen for FY99. That's the insider scoop. The position we will take for the planners may be much different. So delete this memo after you've read

gov> on 03/15/99 10:29:26 AM

.gov> on 03/15/99 10:29:26 AM

Please respond to Tucson, AZ * Gov>
To:
cc:
Subject: Tiger Team Hell

I understand you're going to be sucked into the the for site infiltration. Any idea how that will impact siming for your regional recharge model product for the year's end. Or are your just working every weekend and waking moment like all the rest of ue?

MAR-11-2005 03:24PM

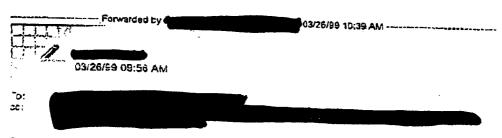
03/26/1999 13:59 AM

Subject: Status of LADS phase 1 calc. report - USGS

Between you and me, I put my 6k effort in months ago. My work gets charged to and This is where we invested our time and energy in oromoting, planning, and actually doing the work. I'll admit that I have not devoted a full-time effort towards. I've been working on the daily climate data-base, the new future climate simulations, the regional modeling, and the backlog of reports. Yes the work is now behind schedule but so is everything else because I'm the only one doing this work and I'll be damned if I drop everything else and work on nothing but the life of the very happy to just hand the work over to someone else at this point. It seems I do not have this option, thus all I can say is that the work will get done, but not by sacraficing everything else that's going on. I do not need to be developing the large careers.

I'm not directing this at you. This is just to let you know where I stand at this point in time.

guess this is another one of those memos that need to be destroyed



Subject: Status of LADS phase 1 calc, report - USGS

On Feb. 1911 requested the following steps from USGS slaff, to complete the calculation report for the

Train) and a checker to Common. Train and the common Also, train and the c

Assign a man and prepare a with input/output files (i.e. implement manual). Typically this should be man, to avoid complications from USGS policies.

3. Designate all software used in this calculation as "software routines." This means the software does not they fit together, exact specification of compiler and CPU (with S/N's), and a test case that exercises all

4. Revise Calc. report with , and software routine documentation. Note that the report should state whether all input data are "Q." If not, then the calculation results should be clearly indicated as

ir x+ /1-2€ 5 03:24PM

5. Printout first draft Originator signs calc. cover sheet. All pages will have the mumber, including the correct Rev. number. Page numbering will comply with 6. Perform internal review of report. This can be informal, or as a ! review implementing Make revisions as required (a revised copy will have the next draft number, i.e. etc.). All pages will be 7. Printout checking draft (increment draft number using marked "Checking Draft" in addition to the mumber, etc. E. Perform checking function, coc dinating with the checking group (). A technically rualified checker (as determined by the Responsible Manager), who has received the checking idoctrination training and knows how to use the checklists, needs to be identified from within N . Revise document, backcheck per QAP 3-15, and get Originator and Checker signoffs on calc. cover page. Get Lead Engineer's signoff (10. Submit final document with cover sheet, all drafts, merkups, and review paperwork, to your representative from Engineering Document Control. Request that they close out any so on the original Design Input Request, and prepare and submit the Record Package to

I requested that steps 1-4 be completed by March 15th, and all steps by 4/15. Steps 1-4 are not complete, so this activity is behind schedule.

Please halp expedite this effort.

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11-2F 5 03:24PM

70: To: CC: CC: Subject: Re: QA

This email is currently marked "Relevant and Not Privileged"

Not a bad idea. I am now considering it. Ideally, one would assume that the more information you provide QA, the better the QA. In reality, it seems that the opposite is true. At any rate, its a damn shame to be wasting time wan this sort of thing.

04/22/89 03:43 PM

To:

Subject: Re: QA 🗟

What it you just download the raw files from and say you used those? Do they need to know any nore than that? You don't really need to do an analysis just say this is the data t used. Maybe that would nork.



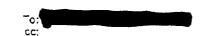
Subject: QA

The QA builshit grows deeper. I may need to say that I did everything by hand for the data package I am comitting that and reviewed. The program I wrote is not in the system and QA will be all over the files on &%#\$. All references to the program I wrote is not in the system and QA will be all over the files on &%#\$.

Here's my question. When we go to start QA'ing the site-scale modeling work, will I get taken to the cleaners because I am not referencing either a tech procedure or a scientific notebook? In other words, would it be cost-effective to create a SN for the site-scale work and back-date the whole thing??

Can't wait to be far-far away from here!

MAR-11-2005 03:24PM



CA.2377189 06:52 PM

Subject: status of new chinate nat-infiltration modeling

This email is currently marked "Relevant and Not Privileged"

thought I'd give you a "heads up" on the progress of work I've been doing with the results you've provided. Model simulations have been in progress but about 3 weeks ago I found a small error in the model input that was generated using the Earthinfo data. The error was minor but would have created a QA nightmans so this was fixed and the simulations are being re-done (I'll send you a summary of the results when I get to this point).

I am about to submit a "developed datapackage" milestone consisting of the climate input files (7 files for the 7 sites you identified) that are being used by the net-infiltration model. The input files are basically re-formatted EarthInfo export files with a minor amount of parameter estimation occurring to fill small gaps in the record (even for the high ranking sites, there are gaps all over the place).

Exists the weird news; to get this milestone through OA. I must state that I have arbitrarily selected the malog sites. At first, I was going to include your email as supporting information in the data package, and iscuss the work we did using the worksheets consisting of candidate sites, but since there is no DTN for our results the message I am getting from CA is that I can't use or refer to those results. In other words, I was trying to give you credit for your part in all this, as well as provide all info possible for the traceability of the analog climates, but this seems to create problems rather then solving them.

So for the record, the seven analog sites have been arbitrarily (randomly) selected. Hopefully these sites will by coincidence match the sites you have identified.

P.S. please destroy this memo

· Janes

MAR-11-2005 03:24PM

04/22/1999 03:27 F.M.

To: co: Subject: QA

This small is currently marked "Relevant and Not Privileged"

The QA bullshit grows deeper. I may need to say that I did everything by hand for the data package I am submitting that and the previewed. The program I wrote is not in the system and QA will be all over it like files on &%#\$. All references to the program are being deleted.

Here's my question: When we go to start QA'ing the site-scale modeling work, will I get taken to the cleaners because I am not referencing either a tech procedure or a scientific notebook? In other words, would it be cost-effective to create a SN for the site-scale work and back-date the whole thing??

Can't wait to be far-far away from here!

029/032

What is your fax number so we can copy you on it.

03/06/2000 08:12 AM

Sub, at: Rei USGS AMRs 🗟

I think we're on board - you of will iniate a 3.14 request?

03/06/2000 08:11 AM

To: cc:

To:

Sub, x: Re: USGS AMRs 🖹

Please note that these are two separate issues:

- is an output data transmittal needed for a number of AMRs. This is needed in the TDMS regardless of the status of the AMR Walls. We are burning CDs and sending you copies of what you sent us for this transmittal and the other Ddata recevied. Please note tha coordinator) also has copies of these data. We will also send you these by email. Las Vegas (the though I am concerned that the files are large and may be difficult to transmit (We will send the files later this morning in separate emails).

If the AMR will not be complete by the time the APPS 14 of the AWA AMF itself (a DRAFT version) must be submitted as an iransmittal. Otherwise the be falized. This is a recent approach to deal with the possibility of an AMR not being complete before the cue date of the

I hope this clarifies these two separate issues.

03/06/2000 05:34 AM

Subject: Re: USGS AMRs

SC:

I am not sure what you mean by "This is a different Transmittal." Is this not

Sk Jar - 100 03:2426 P 023/332 08/05/1999 04:51 PM CC Subject: RE: SN-0115 This small is currently marked "Relevant and Not Privileged" Still planning to meet the Aug 31 deadline with 1st draft into tech review, so I'll be charging full-time to this month (and probably next)...... I think (is it may ???) is running a surplus right now, but may also be charging to this. and and are helping me with the 1st draft as we spe are helping me with the 1st draft as we speak. I've been boggled stuff which includes all the software QA. The has put a high only on the deliverables for both the site and regional work so I'm burning the candle at both ends. The and news is that I'll be a lot more productive in The bad news is that my productivity has en real bad the past month or two with all this moving and house buying crap. Life has been crazy ever since the gathering at the But it feels real good to be working out of the in the middle of Hopefully the proposals for the work (the stuff we sent will go thru and then we'll be doing some serious leveraging of resources for FY00. I also need to get serious about getting together with **S**stuff..... got to go

on 08/05/99 03:53:14 PM on 08/05/99 03:53:14 PM To: CC; Subject: RE:

on CA, nows your recharge report (due Aug 31, 1999) coming. County may want to find the transient recharge work![1] By the Perfect ---- Original Message----> From: > Senc: Thursday, August 09, 1999 3: > To: > Cc: Hydrologist, > Subject: SN-0116 and I have responded to the recent issues concerning 1011s. we believe serve fixed all of the problems identified so that a stop work

MAR-11-2005 03:25PM

To: cci 11:15/1999 08:44 PM Subject: Thanks for the mod refs

This email is currently marked "Relevant and Not Privileged"

inese references are pretty cool. Thanks for 'eaving them, it looks like usable stuff. Why can't I do this? What's my problem?

Well, maybe its that I'm just now getting the stupid data package off to the correct person. I re-sent it to which I just did. Pretty soon the QA experts will want to know where the and precip files came from.

Here they are:

Don't bok at the last 4 lines. Those lines are a mystery that I believe somehow relate to the work was doing in entering the 1994 data. These lines are not used by (we stop at 9/30/84). Ive deleted the lines from the "official" QA version of the files (which do it is needers), in the end I keep track of 2 sets of files, the ones that will keep QA happy and the ones hat will keep QA happy and the ones

ne files are the output from the facility patabase that and I had put together, which I still have but naven't looked at since 1995. So either the the data package has to look a lot like those files or I'm going to have start talking about the facility database when the QA questions start. My guess is that we do not want to deal with the grant catabase.

Here it is almost 2000, and I am still struggling with work done in 1995 and 1996.

P.S. Let's make QA read those references too. Better yet, let's set asside a day for watershed training.

Complete Control of States

01/05/2000 09:52 AM

Ĩr

Suntesti AMR

MAR-11-2005 09:25PM

P 029/032

CC:

On 01/05/2000 09:57 AM

O1/05/2000 08.56 AM

To:
cc:

We will schedule the interviews with the originator of this All for Wednesday, A. Please make arrangements for the appropriate USGS personnel to be at all on that day. For records, they will need as a minimum their Scientific Notebooks and the check/review documents. If different colors were used for the check/review comments, we will need to see colored copies or the originals for this and all the available. We will notify you of additional records will need to see for the that will need to be available. We will try to keep the number of documents that USGS will need to bring to a minimum.

MAR-11-2005 03:25PM

To:
co:
Subject: finally the dam coordinates

This email is currently marked "Relevant and Not Privileged"

I finally took the time to process your request. This required the use of the time to look at the corners of the time, then a coordinate transformation using the time. Here are the results:

my picks using from results obtained from

02/17/2000 04:14 PM

Please do not tell anyone how this was done because then we will need to get this whole thing through software QA:

MAR-11-2005 03:25PM 4

P 028/032

03/06/2000 10:54 AM Subject: Re: USGS This email is currently marked "Relevant and Not Privileged" What a circus (see emails below)..... re-wrote to use the following 🖪 grid files as input: : the composite created by latitude (decimal degrees) for each grid cell calculated by longitude calculated by slope calculated by A aspect calculated by the soil type map, rasterized by the depth class map, rasterized by the rock type map the same and and the topographic ID (I must assume that this was produced in only), rasterized by by using the Because it is only a place holder and not actually used by the model it doesn't matter but the erameter has been carried through the pre-processing and is in all the Time files used as input for I so once the fight, the geology, the soil type, and the soil depth class maps make it into the soil, which is the file I started with in 1996. The link between the source data in the fight and the files above are all standard operations (except for grid files above are all standard maybe the ID stuff) so this should get us to full traceability. I checked the blocking ridge calculations using and they do not match what is in the skyview map produced by the new version of the blocks reasonable. I have not yet Llooks reasonable. I have not yet incorporated latest fixes to literature for the improved version. I am just trying to re-produce the blocking ridge values provided to me in literature back in 1996, and I have not ver been able to do this back in 1996, and I have not yet been able to do this. Again, the original calculation was not done by me and at this point I have no direct trace of the the blocking ridge values in to the actual calculation. I do have a copy of provided to calculations. and I am now using this to check the , do you have the original program that was used to create the values in ? Also, could you send me a copy of the improved version so that we can start with the better numbers for the regional modeling? can (udge the attachment for for now but eventually someone may want to run see what numbers come out and at that point there will be problems, although it is my belief for now that an impact analysis would reveal that the differences are not critical to the end result. Lon: 03/06/2000 10:19 AM ---03/06/2000 09:33 AM

Subject: Re: USGS

ેલ. ૧૯.

Yes - will fedex it and fax it to

MAR-11-2005 03:26PM----- PF

03/07/2000 08:09 PM

Subject: developed daily precip record

This email is currently marked "Relevant and Not Privileged"

Mod3-ppt.dat believe it or not, this file is now 3.5 years old, but it is what was used. This developed record stops on day 274, 1995. The only real good thing about this file is we seem to be very close to getting it into the TDMS (the data was developed in a term of the turned to the turned to go through qualification as a software routine, so things have yet again stalled). Someday i hope to have the time to update this to include an improved pre-1987 interpolation ar d all the new data after 1995, which includes some interesting events..... back to QA.

P.S. Hope this email doesn't trigger a input request l'it probably get fired.

1205 73:26%

03/09/2000 07:39 PM Subject. vegcov01

This email is currently marked "Relevant and Not Privileged"

has a user option which when set to 0 the vegtypes in the file (created by the are ignored and a veg-cover term of 30 is just assumed. The real stupid thing is and this value is never used because the veg cover stuff (root-zone parameters) all get defined in the to itrol file. The veg-type and veg-cover columns are just dummy place holders that are not even used by (remember all those great ideas about correlating something, anything, to vegetation....). But ecause vegcov01 is where the bedrock ks is adjusted I have to drag the routine into the AMR. Damn it The main stupid thing is that as a 1s: step I ran with the user option set 2 to create This setting causes a veg cover estimate to be , the autput from made based on vegtyp01, which are the vegtypes defined for the regional model (data from). I was desperately trying to bring vegetation into the picture (still wasn't getting what I needed from the bugs and bunny crowd) but it didn't match up as well as I had hoped, I ran out of time, and it fizzled. Now fore is the majorly stupid part.) To create , which is used as input to using 2 es input and set the option to 0 So the regional vegtypes made it into all the watershed files that were used in the AMR. Now I can't just re-write the routine to leave but egtypo; because the output will never match what ended the becoming the watershed files. Had I re-run . I could now re-write the code in 5 minutes, get rid of verusing 🗮 ogether, and all would be cool.

So I would like to keep as is, tell the story just as it happened, and than explain that we don't have to trace because it was not used (we cannot bring that into the picture because then we have to deal with the input file which is the geospatial input file for the region!). In fact we can just not even talk about the vegtype and vegcover stuff and just say those are dummy place holders that are never used so they don't need to be traced.

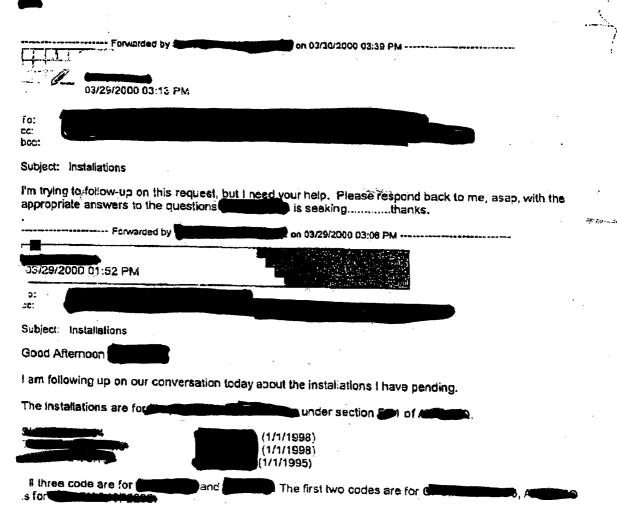
On second thought...do whatever you want. At this point I cannot re-produce the blocking ridge numbers using the second in the s

MAR-11-2005 03:25PM FACE

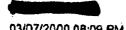
Control 2000 03:48 PM CC: Subject Installations

This email is currently marked "Relevant and Not Privileged"

The programs, of course, are all already installed otherwise the AMR would not exist. I don't have a clue when these programs were installed. So I've made up the dates and names (see red edits below). This is as good as its going to get. If they need more proof I will be happy to make up more stuff, as long as its not a video recording of the software being installed.



The information I need have these codes already been installed to initiate the process, or do they still need to be installed? If they have been installed I need to know the name of the individual that installed the codes and the date. I will also need you permission to make the entries onto the User Request forms to bring them up to date.



03/07/2000 08:09 PM

Subject: developed daily precip record

This email is currently marked "Relevant and Not Privil-ged"



Mo-3-ppt.dat believe it or not, this file is now 3.5 years old, but it is what was used. This developed record sto 3 on day 274, 1995. The only real good thing about this file is we seem to be very close to getting it into the data was developed in a turned to worksheet that may now be required to go through qualification as a software routine, so things have yet again stalled). Someday I hope to have the time to update this to include an improved pre-1987 interpolation and all the new data after 1995, which includes some interesting events..... back to QA.

P,S. Hope this email doesn't trigger a liquid request. I'll probably get fired.